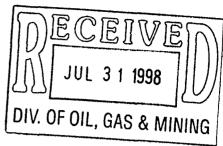


July 29, 1998

Bureau of Land Management Vernal District Office 170 South 500 East Vernal, Utah 84078



ATTENTION: Ed Forsman/Wayne Bankert

RE: Tar Sands Federal #15-28-8-17

Monument Butte Federal #4-24-8-16

Monument Butte Federal #1-23-8-16

Monument Butte Federal #3-23-8-16

Monument Butte Federal #8-23-8-16

S. Wells Draw #10-4-9-16

S. Wells Draw #14A-4-9-16

S. Wells Draw #16-4-9-16

S. Wells Draw #5-3-9-16

S. Wells Draw #12-3-9-16

Tar Sands Federal #16-28-8-17

Monument Butte Federal #5-24-8-16

Monument Butte Federal #2-23-8-16

Monument Butte Federal #7-23-8-16

S. Wells Draw #9-4-9-16

S. Wells Draw #11-4-9-16

S. Wells Draw #15-4-9-16

S. Wells Draw #4-3-9-16

S. Wells Draw #13-3-9-16

#### Gentlemen:

Enclosed is the original and two copies (each) of Application For Permit To Drill, for the above referenced locations.

Please do not hesitate to contact me in the Vernal Branch Office, if you need additional Information, or have questions.

7

Cheryl Cameron
Regulatory Specialist

cc: State of Utah

Division of Oil, Gas & Mining

P.O. Box 145801

1594 West North Temple, Suite 1210

Salt Lake City, Utah 84114-5801

(Other instructions on reverse side)

Budget Bureau No. 1004-0136 Expires December 31, 1991

	JMITED 214							
BUREAU OF LAND MANAGEMENT								ION AND SERIAL NO.
BURE	AU OF LAND MA	ANAGE	MENT				UTU-765	
APPLICATION FO	R PERMIT TO	D DRII	LL, DEEPEN, (	OR P	LUG BA	CK	6. IF INDIAN, ALOTT	EE OR TRIBE NAME
Ia. TYPE OF WORK DRIL	7. UNIT AGREEMENT	ГНАМЕ						
OIL GAS WELL X WELL	ОТІ	IER	SINGLE	MULTI ZONE	PLE	7	8. FARM OR LEASE I	NAME ment Butte Federal
2. NAME OF OPERATOR	L			•			9. WELL NO. #1-23-	<b>9</b> _16
Inland Production Com	грапу						10. FIELD AND POOI	
P.O. Box 790233 Verr	al, UT 84079		Phone	e: (80	1) 789-1866		Monu	ment Butte
4. LOCATION OF WELL (Report leads to the NE/N	ocation clearly and in accor	dance with		(			11. SEC., T., R., M., O. AND SURVEY OR A	R BLK.
At proposed Prod. Zone	660' FNL	& 660'	FEL				Sec. 2	3, T8S, R16E
14. DISTANCE IN MILES AND DIRECT 6.8 Miles Southwest of		/N OR POST	OFFICE*				12. County  Duchesne	13. STATE UT
15. DISTANCE FROM PROPOSED* LC OR LEASE LINE, FT.(Also to neares		PERTY	16. NO. OF ACRES IN LEASE	:	17. NO. OF ACRE	S ASSIGNE	ED TO THIS WELL	
660'			160		40			
18. DISTANCE FROM PROPOSED LOG DRILLING, COMPLETED, OR APP			19. PROPOSED DEPTH		20. ROTARY OR C Rota		OLS	
21. ELEVATIONS (Show whether DF, R	T CP ato)		0.500		<u>.                                    </u>	22 A DDD	ROX. DATE WORK WIL	I CTADT*
5341.6' GR							Quarter 1998	<i>III</i> 51111(1
23. PROPOSED CASINO	G AND CEMENTING	PROGR	AM					
SIZE OF HOLE	SIZE OF CASING	WEIGHT/I	COOT	SETTIN	G DEPTH	QUANT	ITY OF CEMENT	
Refer to Monument Bu	tte Field SOP's I	rilling	Program/Casing D	esign				
The Conditions of A	Approval For A	Applic	ation For Permi	it To	Drill are a	nttach		CEIVE UL 3 1 1998 DIL, GAS & MINING
IN ABOVE SPACE DESCRIBE PR				-	-	-	•	
24. SIGNED Cheryl Cal  (This space for Federal or State office	Camuoa	on subsurf	TITLE Regulatory	******	<del>-</del>	DATE	7/14/98	ny.

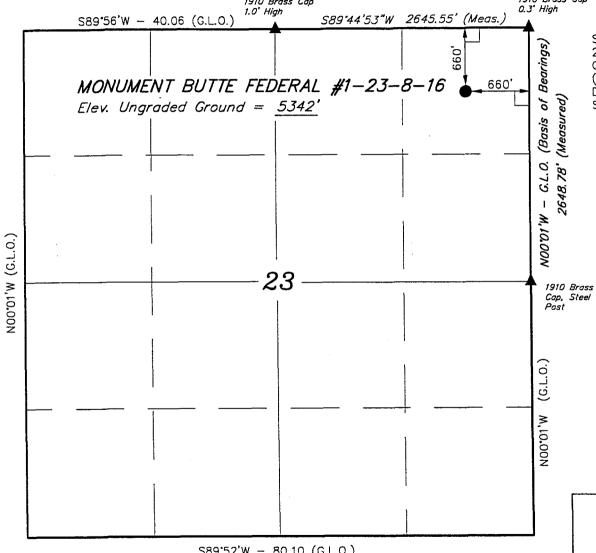
\*See Instructions On Reverse Side

APPROVAL DATE Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF FECIETAL Approval of this

Action is Necessary

Well location, MONUMENT BUTTE FEDERAL T8S, R16E, S.L.B.&M. #1-23-8-16, located as shown in the NE 1/4 NE 1/4 of Section 23, T8S, R16E, S.L.B.&M. Duchesne County, Utah. 1910 Brass Cap 1910 Brass Cap BASIS OF FLEVATION 0.3' High 1.0' High S89"44'53"W 2645.55' (Meas.) SPOT ELEVATION AT THE NORTHEAST CORNER OF SECTION



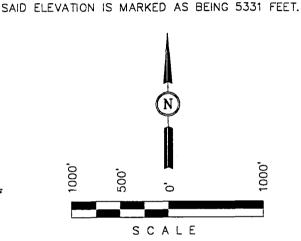
S89\*52'W - 80.10 (G.L.O.)

#### LEGEND:

= 90' SYMBOL

= PROPOSED WELL HEAD.

= SECTION CORNERS LOCATED.



23. T8S. R16E. S.L.B.&M. TAKEN FROM THE MYTON SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES

DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY.

INLAND PRODUCTION CO.

#### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME TR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

> REGISTRATION NOT 151319 STATE OF WITH KAY

UINTAH ENGINEERING & LAND SURVEY VERNAL UTAH 84078 85 SOUTH 200 EAST -(435) 789-1017

SCALE 1" = 1000'	<del>.</del>	DATE SURVEYED: 6-11-98	DATE DRAWN: 7-9-98
PARTY G.S. J.F.	C.B.T.	REFERENCES G.L.O. PLA	ΑT
WEATHER		FILE	
НОТ		INLAND PRODU	JCTION CO.

# INLAND PRODUCTION COMPANY MONUMENT BUTTE FEDERAL #1-23-8-16 NE/NE SECTION 23, T8S, R16E DUCHESNE COUNTY, UTAH

#### ONSHORE ORDER NO. 1

#### **DRILLING PROGRAM**

#### 1. <u>GEOLOGIC SURFACE FORMATION:</u>

Uinta formation of Upper Eocene Age

#### 2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta 0' – 2140' Green River 2140' Wasatch 6500'

#### 3. <u>ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:</u>

Green River Formation 2140' - 6500' - Oil

#### 4. PROPOSED CASING PROGRAM

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

#### 5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Please refer to the Monument Butte Field SOP. See Exhibit "F".

#### 6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

Please refer to the Monument Butte Field SOP.

#### 7. <u>AUXILIARY SAFETY EQUIPMENT TO BE USED:</u>

Please refer to the Monument Butte Field SOP.

#### 8. <u>TESTING, LOGGING AND CORING PROGRAMS:</u>

Please refer to the Monument Butte Field SOP.

#### 9. <u>ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:</u>

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered; nor that any other abnormal hazards such as H2S will be encountered in this area.

#### 10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Monument Butte Field SOP.

#### INLAND PRODUCTION COMPANY MONUMENT BUTTE FEDERAL#1-23-8-16 NE/NE SECTION 23, T8S, R16E DUCHESNE COUNTY, UTAH

#### ONSHORE ORDER NO. 1

#### **MULTI-POINT SURFACE USE & OPERATIONS PLAN**

#### 1. EXISTING ROADS

See attached Topographic Map "A"

To reach Inland Production Company well location site Monument Butte Federal #1-23-8-16 located in the NE 1/4 NE 1/4 Section 23, T8S, R17E, S.L.B. 7 M. Duchesne County, Utah:

Proceed westerly out of Myton, Utah along Highway 40 - 1.5 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly along this road 6.2 miles  $\pm$  to its junction with a dirt road to the southwest; proceed southwesterly 0.3 miles to its junction with the proposed new construction of a dirt road 0.6 miles (refer to exhibit B) to the beginning of the proposed access road.

#### 2. PLANNED ACCESS ROAD

See Topographic Map "B".

#### 3. LOCATION OF EXISTING WELLS

Refer to Exhibit "D".

#### 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

#### 5. LOCATION AND TYPE OF WATER SUPPLY

Please refer to the Monument Butte Field SOP. See Exhibit "C".

#### 6. SOURCE OF CONSTRUCTION MATERIALS

Please refer to the Monument Butte Field SOP.

#### 7. METHODS FOR HANDLING WASTE DISPOSAL

Please refer to the Monument Butte Field SOP. See Exhibit "E".

#### 8. ANCILLARY FACILITIES

Please refer to the Monument Butte Field SOP.

#### **MONUMENT BUTTE FEDERAL #1-23-8-16**

#### 9. WELL SITE LAYOUT

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s). Refer to Exhibit "E".

#### 10. PLANS FOR RESTORATION OF SURFACE

Please refer to the Monument Butte Field SOP.

#### 11. SURFACE OWNERSHIP - Bureau Of Land Management

#### 12. OTHER ADDITIONAL INFORMATION Archaeological Survey & Pipeline ROW

The Archaeological Cultural Resource Survey Report is attached.

Inland Production Company requests that a pipeline ROW be granted to the Monument Butte Federal #1-23-8-16 for a 3" - 4" poly fuel gas line, and a 4" - 6" poly gas gatherline line. Both lines will be run on surface, adjacent to the existing road-way; the route will follow existing roads where possible. Inland requests that a 30' width for the ROW and an additional 30' width for working surface as necessary. Refer to Topographic Map "C".

#### 13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

#### Representative

Name:

Cheryl Cameron

Address:

P.O. Box 790233

Vernal, Utah 84079

Telephone:

(435) 789-1866

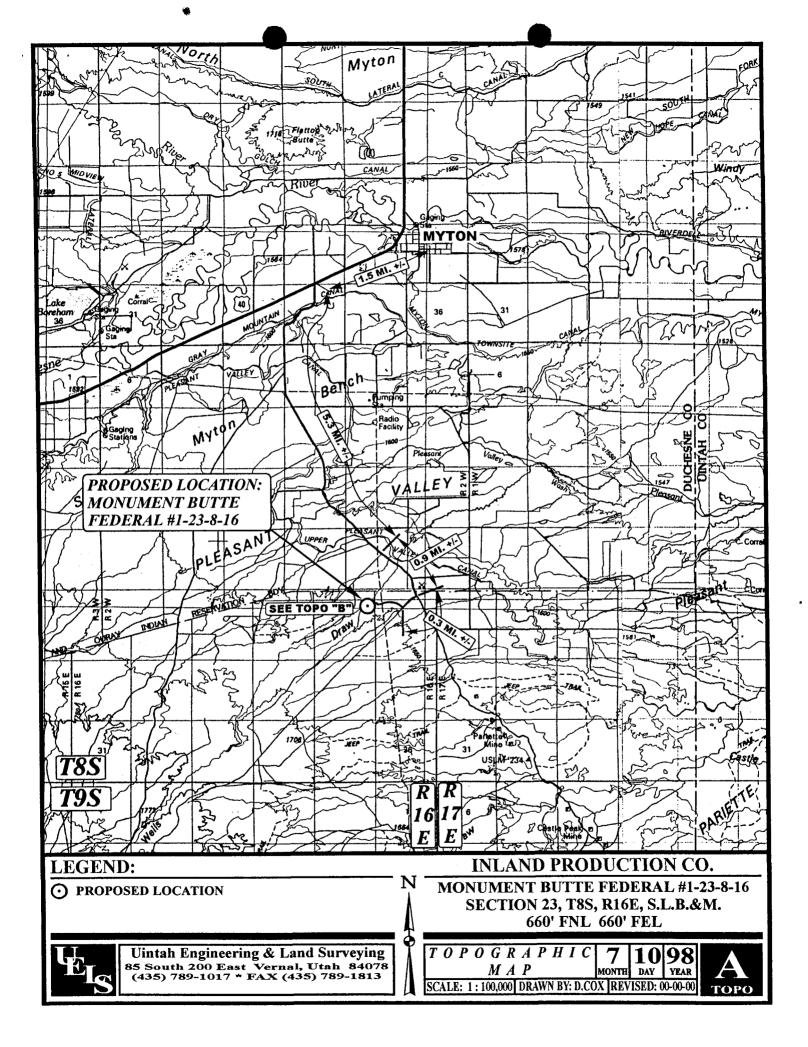
#### Certification

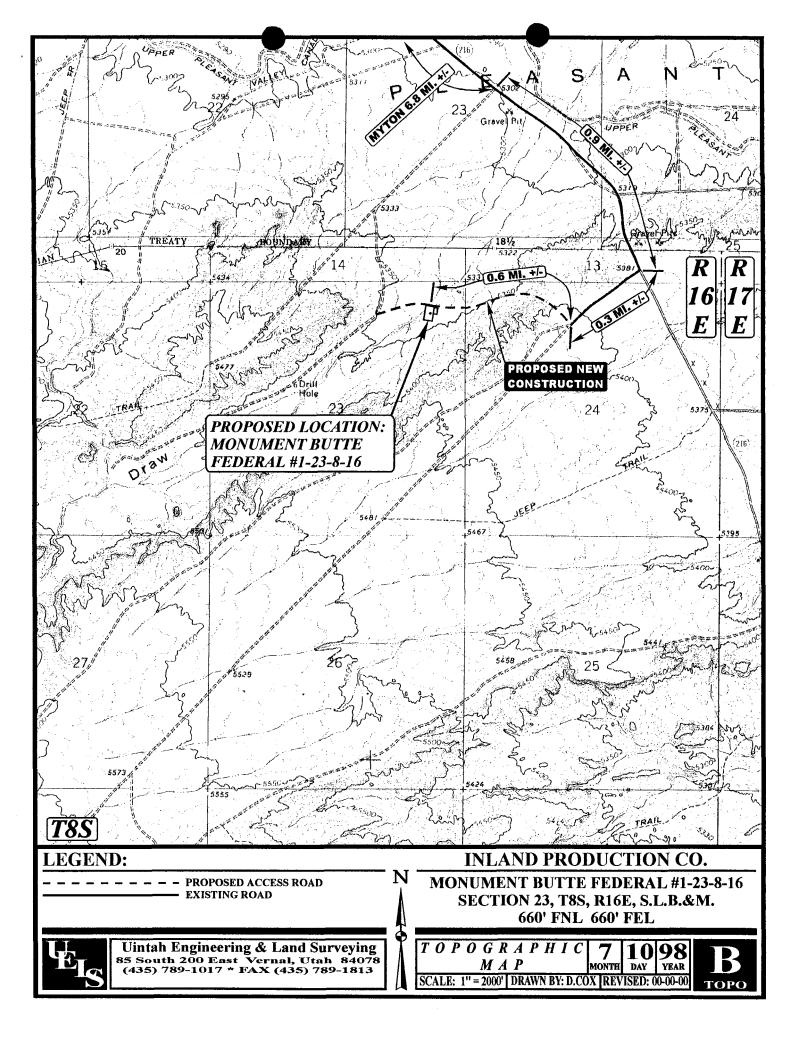
Please be advised that INLAND PRODUCTION COMPANY is considered to be the operator of well #1-23-8-16 NE/NE Section 23, Township 8S, Range 16E: Lease UTU-76560 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

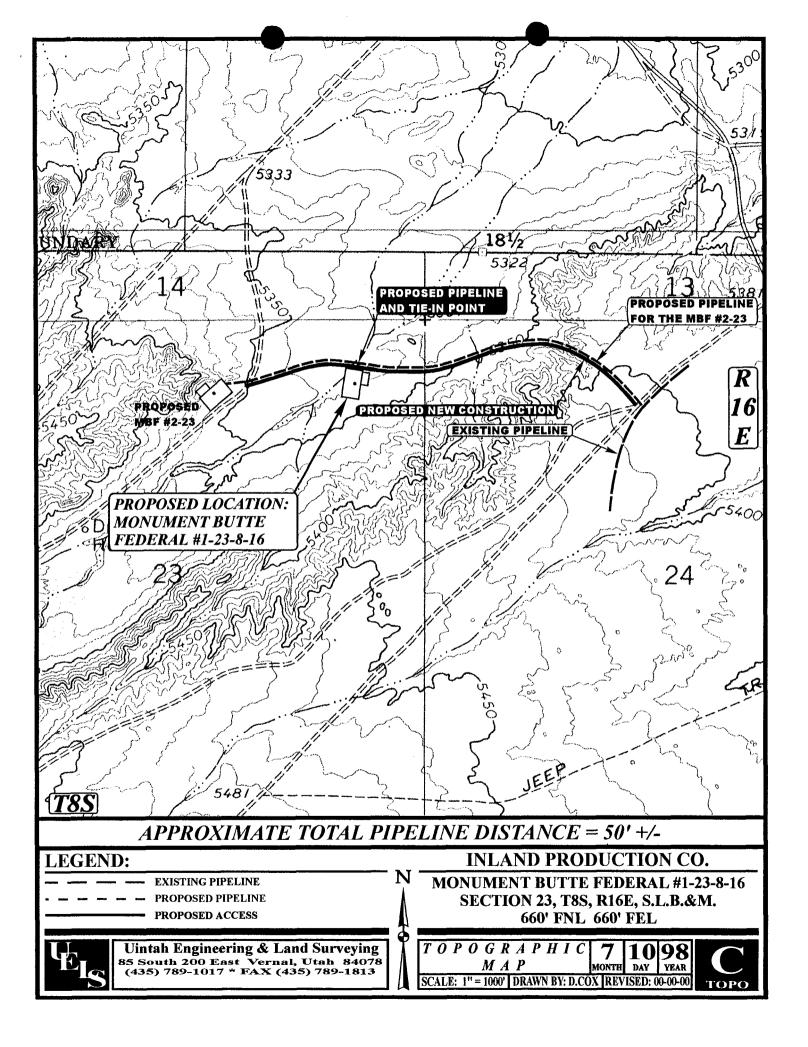
I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Inland Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

7/14/98 Date

Cheryl Cameron Regulatory Specialist







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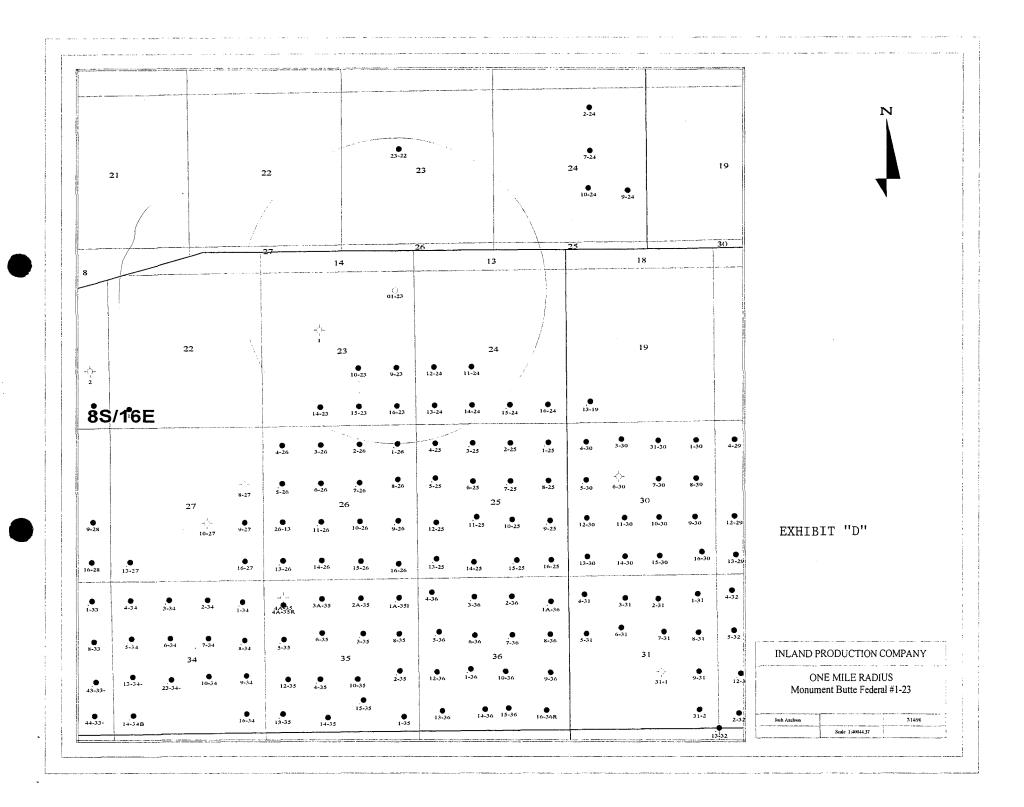
475 17th Street Suite 1500 Denver, Colorado 80202 Phone: (303)-292-0900

Regional Area

Duchesne County, Utah

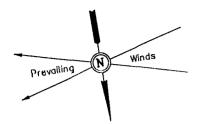
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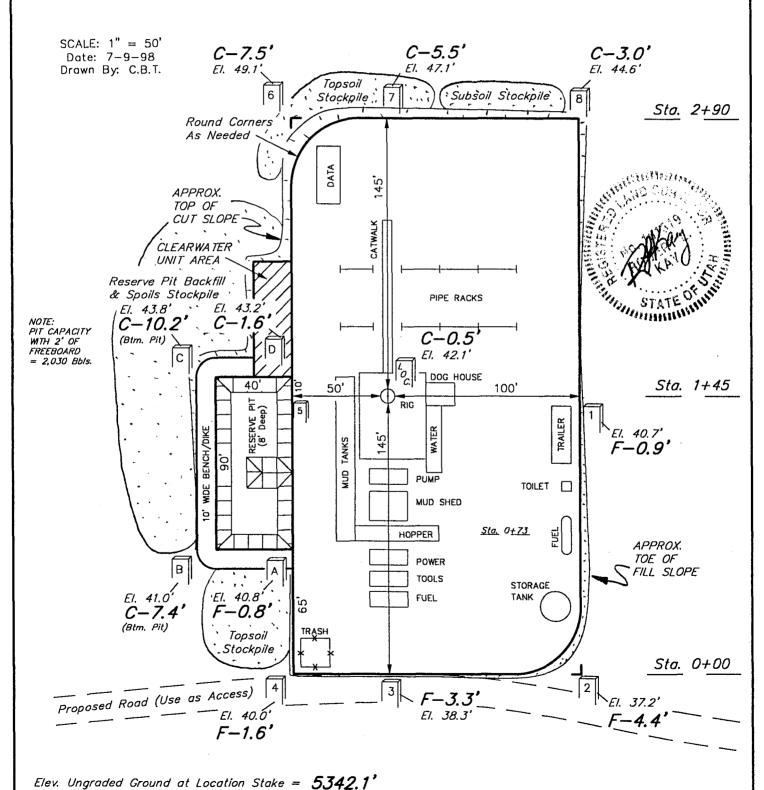


#### INLAND PRODUCTION CO.

#### LOCATION LAYOUT FOR



MONUMENT BUTTE FEDERAL #1-23-8-16 SECTION 23, T8S, R16E, S.L.B.&M. 660' FNL 660' FEL

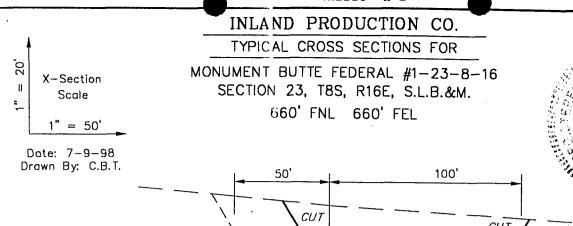


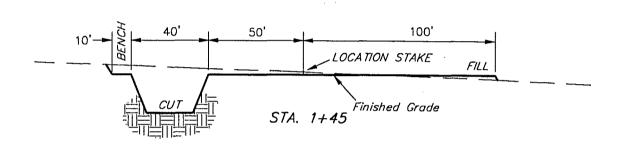
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Elev. Graded Ground at Location Stake

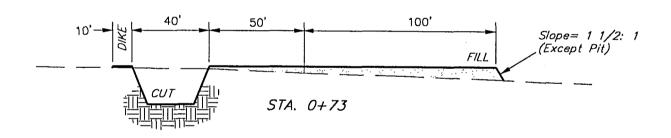
UINTAH ENGINEERING & LAND SURVEYING

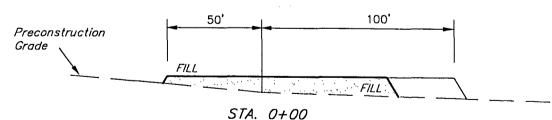
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017





STA. 2+90





Topsoil should not be Stripped Below Finished Grade on Substructure Area.

#### APPROXIMATE YARDAGES

CUT

FILL

NOTE:

(6") Topsoil Stripping = 870 Cu. Yds.

Remaining Location = 2,540 Cu. Yds.

= 3,410 CU.YDS. TOTAL CUT

= 1,910 CU.YDS.

EXCESS MATERIAL AFTER

5% COMPACTION 1,400 Cu. Yds. = 1,200 Cu. Yds.

Topsoil & Pit Backfill (1/2 Pit Vol.)

EXCESS MATERIAL After 200 Cu. Yds.

Reserve Pit is Backfilled & Topsoil is Re-distributed

UINTAH ENGINEERING & LAND SURVEYING 85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

Well No.: Monument Butte Federal 1-23-8-16

# CONDITIONS OF APPROVAL APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company

Well Name & Number: South Wells Draw 1-23-8-16

API Number:

Lease Number: UTU-76560

Location: NENE Sec. 23, T8S, R16E

#### **GENERAL**

Access pad from E, off of proposed access for 4-24-8-16 location.

#### **CULTURAL RESOURCES**

See CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.

#### PALEONTOLOGICAL RESOURCES

See CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.

#### SOILS, WATERSHEDS, AND FLOODPLAINS

See CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.

#### **WILDLIFE AND FISHERIES**

See CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.

BURROWING OWL: Due to the proximity of the location to active prairie dog towns, there is the potential to encounter nesting burrowing owls between April 1 and July 15. No new construction or surface disturbing activities will be allowed between April 1 and July 15 within a 0.5 mile radius of any active burrowing owl nest.

#### THREATENED, ENDANGERED, AND OTHER SENSITIVE SPECIES

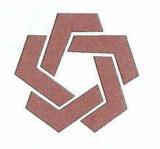
See CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.

FERRUGINOUS HAWK: In the event that this well becomes a producing well, it must be equipped with a multi-cylinder engine or hospital muffler to reduce noise levels.

MOUNTAIN PLOVER: If new construction or surface disturbing activities are scheduled to occur between March 15 and August 15, detailed surveys of the area within 0.5 mile of the proposed location and within 300 feet of proposed access routes must be conducted to detect the presence of mountain plovers. All surveys must be completed prior to initiating new construction or surface disturbing activities (see Survey Protocol COAs EA Number 1996-61).

OTHER

APD RECEIVED: 07/31/98	API NO. ASSIGNED: 43-013-32093
WELL NAME: MONUMENT BUTTE 1-23-8-16 OPERATOR: INLAND PRODUCTION COMPAN CONTACT: Chery Cameron (435) 789-	Y (N5160)
PROPOSED LOCATION:	INSPECT LOCATION BY: / /
NENE 23 - T08S - R16E SURFACE: 0660-FNL-0660-FEL	TECH REVIEW Initials Date
BOTTOM: 0660-FNL-0660-FEL DUCHESNE COUNTY	Engineering
MONUMENT BUTTE FIELD (105)	Geology
LEASE TYPE: FED  LEASE NUMBER: UTU-76560  SURFACE OWNER: Federal	Surface
PROPOSED FORMATION: GRRV	
Plat  Plat  Bond: Federal M State[] Fee[]  (No. 4488944  Potash (Y/N)  N Oil Shale (Y/N) *190-5(B)  Water Permit  (No. Johnson Water District  N RDCC Review (Y/N)  (Date: )  NA St/Fee Surf Agreement (Y/N)	LOCATION AND SITING:  R649-2-3. Unit  R649-3-2. General  R649-3-3. Exception  Drilling Unit Board Cause No: Date:
COMMENTS: * Standard Operation Procedus	Le (SOP) separate file.
STIPULATIONS: D FEDERAL A	PPROUA



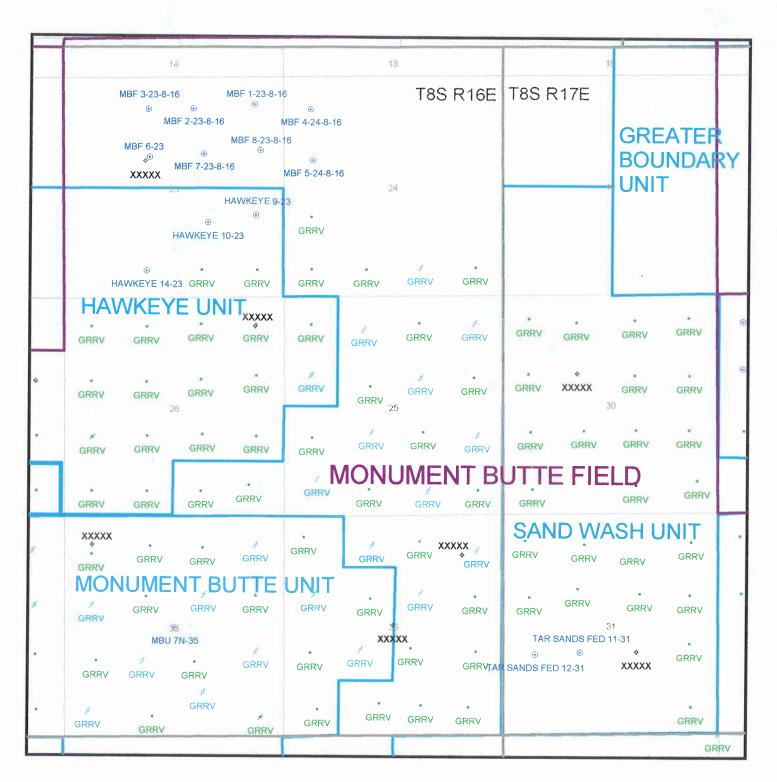
DIVISION OF OIL, GAS & MINING

OPERATOR: INLAND PRODUCTION COMPANY (N5160)

FIELD: MONUMENT BUTTE (105)

SEC. 23 & 24, TWP 8S, RNG 16E

COUNTY: DUCHESNE UAC: R649-3-2 STATEWIDE SPACING



Michael O. Leavitt Governor Lowell P. Braxton Division Director

PO Box 145801 Salt Lake City, Utah 84114-5801 801-538-5340 801-359-3940 (Fax) 801-538-7223 (TDD)

1594 West North Temple, Suite 1210

August 10, 1998

Inland Production Company P.O. Box 790233
Vernal, Utah 84079

Re: Monument Butte Federal 1-23-8-16 Well, 660' FNL, 660' FEL, NE NE, Sec. 23, T. 8 S., R. 16 E., Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-32093.

Sincerely,

Stil Elun

John R. Baza

Associate Director

lwp

Enclosures

cc: Duchesne County Assessor

Bureau of Land Management, Vernal District Office

Operator:	Inland Production Company
Well Name & Number:	Monument Butte Federal 1-23-8-16
API Number:	43-013-32093
Lease:	UTU-76560
Location: NE NE	Sec. 23 T. 8 S. R. 16 E.

#### Conditions of Approval

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

#### 2. Notification Requirements

Notify the Division within 24 hours prior to spudding the well. Contact Jim Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Dan Jarvis at (801) 538-5338 or Robert Krueger at (801) 538-5274.

#### 3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval which must be obtained prior to drilling.

Budget Bureau No. 1004-0136 Expires December 31, 1991

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.

BUREA	U OF LAND MA	NAGEME	N I				UTU-76	
APPLICATION FO	R PERMIT TO	DRILL,	DEEPEN	I, OR P	LUG BA	CK	6. IF INDIAN, ALO	ITEE OR TRIBE NAME
1a. TYPE OF WORK  1b. TYPE OF WELL		PEN					7. UNIT AGREEME	NT NAME
OIL GAS WELL X WELL	ОТНЕ	ER	SINGLE ZONE	MULTII ZONE	PLE			ENAME ument Butte Federal
2. NAME OF OPERATOR  Inland Production Com	nanv						9. WELL NO. #1-23	3-8-16
3. ADDRESS OF OPERATOR				(00:	1) 500 100		10. FIELD AND POO	
P.O. Box 790233 Vern 4 LOCATION OF WELL (Report lo	al, UT 84079 cation clearly and in accords	ance with any Sta			1) 789-186	00	11. SEC., T., R., M.,	ument Butte OR BLK.
At Surface NE/N At proposed Prod. Zone							AND SURVEY OF Sec. 2	RAREA 23, T8S, R16E
14. DISTANCE IN MILES AND DIRECT 6.8 Miles Southwest of		OR POST OFFIC	CE*	,			12. County  Duchesne	13. STATE UT
15. DISTANCE FROM PROPOSED* LO	CATION TO NEAREST PROP	PERTY 16. N	O. OF ACRES IN L	EASE	17. NO. OF ACE	LES ASSIGNI	ED TO THIS WELL	
OR LEASE LINE, FT. (Also to nearest 660'	orig. unut mie, ii aity)		160			10		
18. DISTANCE FROM PROPOSED LOC DRILLING, COMPLETED, OR APPI		,	ROPOSED DEPTH 6500'		20. ROTARY OF ROT	R CABLE TO Lary	OLS	
21. ELEVATIONS (Show whether DF, R. 5341.6' <b>GR</b>	, GR, etc.)	I					ROX. DATE WORK W Quarter 1998	ILL START*
23. PROPOSED CASING	AND CEMENTING	PROGRAM						
		WEIGHT/FOOT		SETTING	S DEPTH	QUANT	ITY OF CEMENT	
SIZE OF HOLE	SIZE OF CASING							
		rilling Pro	gram/Casin	g Design				
Refer to Monument Bu	te Field SOP's D				Drill are	attach	ned.	RECEIVED
SIZE OF HOLE	te Field SOP's Description of the providence of	application	on For Per	emit To	resent productiv	e zone and j	proposed new product preventer program, id	Jじに 3 0 1998
Refer to Monument Bu  The Conditions of A  IN ABOVE SPACE DESCRIBE PR  If proposal is to drill or deepen direct	oposed Program: If it in ally, give pertinent data of the control	application	on For Per	mit To	resent productiv	e zone and j	oroposed new product	Jじに 3 0 1998
Refer to Monument Bu  The Conditions of A  IN ABOVE SPACE DESCRIBE PR If proposal is to drill or deepen direct  24.  SIGNED Cheryl Car  (This space for Federal or State office PERMIT NO.	oposed Program: If it in all y, give pertinent data of the remains.	proposal is to decon subsurface loc	epen or plug back, cations and measure  Regulator	give data on preed and true ver	resent productiv rtical depths. G	ve zone and prive blowout	proposed new product preventer program, it 7/14/98	JUL 3 0 1998  tive zone. f any.
The Conditions of A  IN ABOVE SPACE DESCRIBE PR If proposal is to drill or deepen direct 24.  SIGNED Cheryl Car  (This space for Federal or State office PERMIT NO.  Application approval does not warrant	opproval For A  opproval For A	proposal is to decon subsurface loc	epen or plug back, cations and measure  Regulator	give data on preed and true ver	resent productiv rtical depths. G	ve zone and prive blowout	proposed new product preventer program, it 7/14/98	JUL 3 0 1998  tive zone. f any.
Refer to Monument Bu  The Conditions of A  IN ABOVE SPACE DESCRIBE PR If proposal is to drill or deepen direct  24.  SIGNED Cheryl Car  (This space for Federal or State office PERMIT NO.	opproval For A  opproval For A	proposal is to decon subsurface loc	epen or plug back, cations and measure  Regulate  PROVAL DATE the title to those rights	give data on preed and true ver	resent productive rtical depths. Galist	ve zone and prive blowout	proposed new product preventer program, it 7/14/98	JUL 3 0 1998  tive zone. f any.

DOGM

COAs Page 1 of 3

Well No.: Monument Butte Federal 1-23-8-16

# CONDITIONS OF APPROVAL APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company
Well Name & Number: Monument Butte Federal 1-23-8-16
API Number: <u>43-013-32093</u>
Lease Number: <u>U -76560</u>
Location: NENE Sec. 23 T. 8S R. 16E

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

Well No.: Monument Butte Federal 1-23-8-16

#### CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

#### A. DRILLING PROGRAM

#### 1. Casing Program and Auxiliary Equipment

As a minimum, the usable water resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the base of the usable water zone, identified at  $\pm 406$  ft.

COAs Page 3 of 3

Well No.: Monument Butte Federal 1-23-8-16

#### **SURFACE USE PROGRAM**

Conditions of Approval (COA)

#### **Location Reclamation**

The following seed mixture will be used on the stock piled topsoil, reclamation of the reserve pit and for final reclamation: (All poundages are in Pure Live Seed)

needle and thread	Stipa comoata	2 lbs/acre
shadscale	Atriplex confertifolia	3 lbs/acre
fourwing saltbush	Atriplex canescens	4 lbs/acre
indian rice grass	Oryzopsis hymenoides	3 lbs/acre

The location topsoil pile shall be seeded immediately after site construction by broadcasting the seed, then walking the topsoil pile with the dozer to plant the seed.

The reserve pit shall have a small amount of topsoil stock piled near by to be used to spread over the reserve pit area at the time the reserve pit is reclaimed.

At the time of final abandonment the location and access will be recontoured to natural topography and topsoil spread over the area and the surface seeded immediately. If the previously reclaimed surface of the reserve pit needs additional contouring, the topsoil over the pit will be scraped off and then used as additional topsoil for final reclamation.

#### Wildlife Habitat

If the location is to be Constructed or Drilled 2/1 to 8/15 additional surveys for golden eagle, ferruginous hawk, burrowing owl and mountain plover will be required before development can occur.

### DIVISION OF OIL, GAS AND MINING

#### SPUDDING INFORMATION

Name of Company: INLAND PRODUCTION CO
Well Name: MONUMENT BUTTE FED 1-23-8-16
Api No 43-013-32093 Lease Type: FEDERAL
Section 23 Township 08S Range 16E County DUCHESNE
Drilling Contractor UNION DRILLING RIG # 14
SPUDDED:
Date 02/03/2000
Time 7:00 PM
HowDRY
Drilling will commence
Reported by PAT WISENER
Telephone #1-435-823-7468
Date 02/04/2000 Signed: <u>CHD</u>

STATE OF UTAH DIVISION OF CIL, GAS AND MINING ENTITY ACTION FORM -FORM 6

OPERATOR: INLAND PRODUCTION COMPANY

OPERATOR ACCT. NO. N5160

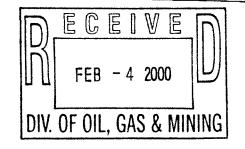
	on of CIL, Gai			ADDRESS:	- 1-2 × 124	3X 3630 -				OPERATOR ACCT. NO.	NS160
ENT	ITY ACTION	FORM-FO	RM 6								
					MYTON	UT 840	52				
ACTON	CLRRENT	MEN.	APINULISER								
ಯಾಕ	ENTRY !:5	ENTITY NO.	11001.221	WELL WAKE			WELL	LOCATION		SPCC	
[				į.	୍ଦ ପ୍ର	SC	T:P	RG	COUNTY	D#15	EFFECTIVE
A.	99999 201/YENTS	12683	43-013-32093	Monument Butte Federal 1-23-8-16	NE/NE	23	88	16E			0ATE
	55% 72RIS	Unîon rig #1	4 spud at 7 Pin	0207 entity added. KD	R	<del></del>			Duchesne	Feb. 3, 2000	
NC:TOA	CURREAT	NEW	APINUMBER	WELLIAME	Ţ	-	107110000				
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WELL 20	OMVENTS:	1				L.	<u> </u>				
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- 1	CURRENT	NEW	API NUMBER	WELL NAVE	γ						
- 1	CURRENT SKITTYIO,	NEW NEW	AFI NUMBER	WELL NAYE	00	C.P.		CCATION		S>UD å	EFFECTIVE
ACT:DN CCCC		ļ ?	API NUMBER	WELL NAVE	as a	9C	WELL U	CCATION RG	COUNTY	SPUD DATE	EFFECTIVE DATE
CODE !	,си үштэг	ļ ?	API NUMBER	WELL NAVE	αa	SC.			COUNTY	1 :	
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0003	,си үштэг	ļ ?	AFi NUMBER	WELL NAVE	GΩ	SC			COUNTY	1 :	
ECCO S & LIBY	,си үчтээ	ļ ?	API NUMBER		g	SC	ТР	RG	COUNTY	1 :	
ECCO S & LIBY	CNYTITHS	SMILIN 70	3	WELL NAME  WELL NAME	MAL.		TP WELL IX	RG	COUNTY	1 :	DATE
CODE !	SKTITY NO.  DIVYENTS.  CURRENT	NEW SHILING	3		go	sc sc	ТР	RG	COUNTY	SATE	
ECCO FCTTON FCCTON	SKTITY NO.  OVYENTS,  CURRENT  ENTITY NO.	NEW SHILING	3		MAL.		TP WELL IX	RG RG		SPJD	DATE
ECCO FCTTON FCCTON	SKTITY NO.  DIVYENTS.  CURRENT	NEW SHILING	3		MAL.		TP WELL IX	RG RG		SPJD	DATE
CTPOY CODE	SKTITY NO.  OVYENTS,  CURRENT  ENTITY NO.	NEW SHILING	3		MAL.		TP WELL IX	RG RG		SPJD	DATE
WELL 3 CO	SKTITY NO.  OVYENTS,  CURRENT  ENTITY NO.	ON YITINE WAN	AFI NUMBER	WELL NAME	MAL.		TP WELL IX	RG RG		SPJD	DATE
ECCO FCTTON FCCTON	SKTITYNO,  DVYENTS,  CURRENT ENTITYNO  MAYENTS:	WEW WEINE WO	3		MAL.		TP WELL IX	RG OCATION RG		SPJÐ DATE	EFFECTIVE 2.FAC
WELL S CO	SKTITY NO.  CURRENT EMITTY NO  MAYENTS:	ON YITINE WAN	AFI NUMBER	WELL NAME	MAL.		WELL LO	RG OCATION RG		SPJD DATE	EFFECTIVE  DATE
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ACTION CODES (See instructions on back of form)

- A Establish new entity for new walf (single well only)
- B Add naw well to existing entity (group or unit well)
- C Re-assign well from one existing entry to another existing entity
- D Re-assign we'l from one existing entity to a new entity
- E Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)



Sr. Production Accounting Clerk February 4, 2000

FORM 3160-5 (June 1990)

#### UNITED STATES **BUREAU OF LAND MANAGEMENT**

	FORM APPROVED
	Budget Bureau No. 1004-013
·	Expires: March 31, 1993

Budget B	tureau No.	1004-013
Expires:	March 31,	1993

SUNDRY NOTICES AN	D REPORTS ON WELLS	UTU-76560
Do not use this form for proposals to drill or to dee		6. If Indian, Allottee or Tribe Name NA
SUBMIT IN	I TRIPLICATE	7. If Unit or CA, Agreement Designation  Monument Butte Federal
1. Type of Well  X Oil Well Gas Well Other		8. Well Name and No. # 1-23-8-16
2. Name of Operator		9. API Weil No. 43-013-32093
INLAND PRODUCTION COMPANY  3. Address and Telephone No.		10. Field and Pool, or Exploratory Area  MONUMENT BUTTE
Route 3 Box 3630 Myton, Utah 84052	435-646-3721	11. County or Parish, State
4. Location of Well (Footage, Sec., T., R., m., or Survey Description) 660' FNL, 660' FEL NE/NE Sec.23,788,R16E		DUCHESNE COUNTY, UTAH
	TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE O	FACTION
Notice of Intent  X Subsequent Report  Final Abandonment Notice	Abandonment Recompletion Plugging Back Casing Repair Altering Casing X Other Surface spud	Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
MIRU UNION RIG # 14. Set equipment. Dril of 13 3/8" conductor. Nipple up cellar. Drill 12 Cement with *141sks class "G" w/ 3% CaCL to surface. WOC 4 hours. Pressure test Kelly TESTED GOOD. Vernal District BLM notifed	2.1/4" hole with air mist to a depth of 343'. TII & 1/4#/sk Cello-flake mixed @ 15.8ppg. W/ y, TIW, Choke manifold, & BOP's TO 2000	H w/ 8 5/8" J-55 csg. Landed @ 317'. 1.17cf/sk yield. Estimated 5 bbls cement psi. Test 8 5/8" CSG. TO 1500 PSI. ALL
		RECEIVED
		FEB 0 9 2000
		DIVISION OF OIL, GAS AND MINING
3. I hereby certify that the foregoing is true and correct Signed Art Wisener	Title Drilling Foreman	Date 2/7/00
(This space for Federal or State office use)  Approved by  Conditions of approval, if any:	Title	Date
CC: UTAH DOGM		

FORM 3160-5 (June 1990)

#### UNITED STATES T OF THE INTERIOR

FORM APPRO
D 1 D

Budget Bureau No. 1004-0135

BUREAU OF LAND MANAGEMENT	Expires: March 31, 1993
	5. Lease Designation and Serial No.
NDRY NOTICES AND REPORTS ON WELLS	UTU-76560
proposals to drill or to deepen or reentry a different reservoir.	6. If Indian, Allottee or Tribe Name
Use "APPLICATION FOR PERMIT -" for such proposals	l NA

SUNDRY NOTICES AND F	REPORTS ON WELLS	UTU-76560
Do not use this form for proposals to drill or to deepen or Use "APPLICATION FOR	reentry a different reservoir.  R PERMIT -" for such proposals	6. If Indian, Allottee or Tribe Name  NA
	TRIPLICATE	7. If Unit or CA, Agreement Designation  Monument Butte Federal
1. Type of Well    X   Oil   Gas   Well   Other		8. Well Name and No. # 1-23-8-16 9. API Well No.
2. Name of Operator INLAND PRODUCTION COMPANY 3. Address and Telephone No.		43-013-32093  10. Field and Pool, or Exploratory Area  MONUMENT BUTTE
•	46-3721	11. County or Parish, State
660' FNL, 660' FEL NE/NE Sec.23,T8S,R16E		DUCHESNE COUNTY, UTAH
12. CHECK APPROPRIATE BOX(s) TO	INDICATE NATURE OF NOTICE, REPORT, OR	
TYPE OF SUBMISSION	ТҮРЕ	OF ACTION
Notice of Intent  X Subsequent Report	Abandonment Recompletion Plugging Back	Change of Plans New Construction Non-Routine Fracturing
Final Abandonment Notice	Casing Repair Altering Casing X Other Weekly Status	Water Shut-Off Conversion to Injection Dispose Water
		(Note: Report results of multiple completion on Well  Completion or Recompletion Report and Log form.)
13. Describe Proposed or Completed Operations (Clearly state all pertinent details. and give p	ertinent dates, including estimated date of starting any proposed work. If well is	
ally drilled, give subsurface locations and measured and true vertical depths for all ma	rkers and zones pertinent to this work.)*	

#### Weekly Status for the period of 2/6/00 to 2/14/00

Drill 7 7/8" hole with air mist to a depth of 3783'. Then drill a 7 7/8" hole to a depth of 5966' with water based mud. Lay down drill string. Open hole log. Run 4 1/2" 11.6# J-55 csg to a depth of 5921.76. Cement with \*350 sks Prem Lite ll w/ 10% Gel & 3% KCL mixed @ 11 ppg, > 3.43 YLD. Then \*550 sks 50/50 Poz w/ 2% Gel & 3% KCL mixed @ 14.4 ppg, >1.24 YLD. Plug down @ 5:03pm. 12 bbls dye to surface. Release rig. Wait on completion.

DAMEN OF CIL, CLE AND RESIG

14. I hereby certify that the foregoin is true and correct Signed at Wysere	Title	Drilling Foreman	Date	02/14/2000
(This space for Federal or State office use)				
Approved by	Title		Date	
Conditions of approval, if any:				
CC: UTAH DOGM				

FORM 3160-5 (June 1990)	DEPARTMENT (	STATES OF THE INTERIOR LAND MANAGEMENT	5. 1	FORM APPROVEI Budget Bureau No. Expires: March 31, Lease Designation and	1004-0135 1993
Do not use this for		TS ON WELLS to deepen or reentry a different reserve ERMIT" for such proposals	į	<b>JTU-76560</b> f Indian, Allottee or T	
	SUBMIT IN TRIP	PLICATE	7. ]	If Unit or CA, Agreem	nent Designation
I. Type of Well Oil Well We	1 1		<b>Mo</b> i	Vell Name and No.  nument Butte Fede  API Well No.	ral 1-23-8-16
Name of Operator     Inla     Address and Telephone No.	nd Production Company		10. 1	013-32093 Field and Pool, or Exp Monument Butte	loratory Area
4. Location of Well (Footage 660' FNL & 660' FEL NE/	Rout #3 Box 3630 Myto , Sec., T., R., m., or Survey	on, Utah 84052 435-646-3721 Description)	11. 0	County or Parish, Stat hesne County Utah	е
12. CHECK APPROPRIATE		NATURE OF NOTICE, REPORT, OR OTI	HER DATA		-
Table 2 Substitute    13. Describe Proposed or Coproposed work. If well is directly this work.)*  Status report	ectionally drilled, give subs	Abandonment Recompletion Plugging Back Casing Repair Altering Casing Other Status report  y state all pertinent details, and give pertine surface locations and measured and true vertime period 9/00. No zones have been opened at this tire	Compent dates, includertical depths for 2/14/00	Change of Plans New Construction Non-Routine Fract Water Shut-Off Conversion to Inje Dispose Water Report results of multiple of eletion or Recompletion Report all markers and zones through	nuring completion on Well ort and Log form.) starting any
14. I hereby certify that the f Signed	Jan the	Title Completion Foreman	n		1-Feb-00
(This space for Federal of Approved by Conditions of approval, CC: Utah DOGM	·	Title		Date	

\*See Instruction on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(June 1990)  DEPARTMENT BUREAU OF  SUNDRY NOTICES AND REPORT  Do not use this form for proposals to drill of	D STATES F OF THE INTERIOR F LAND MANAGEMENT  RTS ON WELLS or to deepen or reentry a different reservoir. PERMIT" for such proposals	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993  5. Lease Designation and Serial No. UTU-76560  6. If Indian, Allottee or Tribe Name
SUBMIT IN TRI	PLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well Oil Well Well Other	ILIONIE	8. Well Name and No.  Monument Butte Federal 1-23-8-16  9. API Well No.
2. Name of Operator  Inland Production Company 3. Address and Telephone No.	,	43-013-32093 10. Field and Pool, or Exploratory Area Monument Butte
Rout #3 Box 3630 My 4. Location of Well (Footage, Sec., T., R., m., or Surve 660' FNL & 660' FEL NE/NE Section 23, T8S, R16E	yton, Utah 84052 435-646-3721 ry Description)	11. County or Parish, State  Duchesne County Utah
12. CHECK APPROPRIATE BOX(s) TO INDICATE		ATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent  X Subsequent Report  Final Abandonment Notice	Abandonment Recompletion Plugging Back Casing Repair Altering Casing Other Status report	Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
13. Describe Proposed or Completed Operations (Clean proposed work. If well is directionally drilled, give subthis work.)*  Status report for Subject well had 2 Green River formation zones perfebeing swab & flow tested to clean up sand.	osurface locations and measured and true vertical de time period 2/21	pths for all markers and zones pertinent to  //00 through 2/27/00.
14. I hereby certify that the Gregoing is true and corect Signed  Gary Dietz  (This space for Federal or State office use)	Title Completion Foreman	Date 28-Feb-00

\*See Instruction on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Date

Title

Approved by
Conditions of approval, if any:
CC: Utah DOGM

(June 1990) DEPART BUREA	NITED STATES MENT OF THE INTERIOR LU OF LAND MANAGEMENT	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993  5. Lease Designation and Serial No.
	drill or to deepen or reentry a different reservoir. OR PERMIT" for such proposals	6. If Indian, Allottee or Tribe Name
	N TRIPLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well Oil Well Well Other		8. Well Name and No.  Monument Butte Federal 1-23-8-16 9. API Well No.
2. Name of Operator  Inland Production Con  3. Address and Telephone No.	npany	43-013-32093 10. Field and Pool, or Exploratory Area  Monument Butte
Rout #3 Box 36 4. Location of Well (Footage, Sec., T., R., m., or 660' FNL & 660' FEL NE/NE Section 23, T8S, R	6E	11. County or Parish, State Duchesne County Utah
12. CHECK APPROPRIATE BOX(s) TO INDICATE TYPE OF SUBMISSION	CATE NATURE OF NOTICE, REPORT, OR OTHER D  TYPE OF ACTION	DATA
Notice of Intent  X Subsequent Report  Final Abandonment No	Abandonment Recompletion Plugging Back Casing Repair	Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

Status report for time period 2/28/00 through 3/5/00. Upon swab testing subject well began flowing. Decision was made to rig down service unit & continue flowing well to production tanks. Production equipment will be ran at a later date.

Don't-Know
where this
fite 15-ckd
out to Kathy
originally



MAR 6 7 2000

OIL, GAS A.

. I hereby certify that the foregoing is true and corn Signed Gary Dietz	Title	Completion Foreman	Date	6-Mar-00
(This space for Federal or State office use)				
Approved by Conditions of approval, if any:	Title		Date	
CC: Utah DOGM				

FORM 3160-4 (July 1992)

#### SUBMIT IN DU **UNITED STATES**

**DEPARTMENT OF THE INTERIOR** 

(See other instructions ons reverse side) FORM APPROVED OMB NO. 1004-0137

Expires: February 28, 1995

## 5. LEASE DESIGNATION AND SERIAL NO.

	חטם	CAU OF LAI	ND MANAGE	VIENI			<i>UTU-76560</i>
WELL CO	MPLETION	OR RECO	OMPLETIO	N REPORT	AND LOC	6. IF INDIAN, AL	LOTTEE OR TRIBE NAME N/A
1a. TYPE OF WORK						7. UNIT AGREEM	
	OIL WELL	X GAS		Other			N/A
1b. TYPE OF WELL	•						
NEW WOR	к <u>Г</u>	PLU	C DIEE			8. FARM OR LEA	SE NAME, WELL NO.
WELL X OVE		BAC		Other		Monument E	Butte Federal 1-23-8-16
2. NAME OF OPERATOR						9. API WELL NO.	
3. ADDRESS AND TELEPHON	- NO	INLAND RES	OURCES INC	)	·		13-013-32093
		700 Denver	CO 80202: PI	hone (303) 893	R_0102		OOL OR WILDCAT
4. LOCATION OF WELL (R	eport locations clear	y and in accordance	with any State require	ments.*)	5-0102		onument Butte ., OR BLOCK AND SURVEY
At Surface						OR AREA	,, ON PROOFFE BONCE
NENE 660' FNI	_ & 660' FEL			+ ,		Section	on 23, T8S, R16E
At top prod. Interval reported	below						
As even done		F					
At total depth		14. PERN	AT NO.	DATE ISSUEI		12. COUNTY OR P.	
15. DATE SPUDDED 16. DAT	E T.D. REACHED	17 DATE COMP	L. (Ready to prod.)	18 ELEVATIONS	DF, RKB, RT, GR, F	Duches	<del></del>
2/3/00	2/9/00		3/22/00		2' KB	5342' GR	19. ELEV. CASINGHEAD
20. TOTAL DEPTH, MD & TVD	21. PLUG BA	CK T.D., MD & TVD	22. IF MULTI		23. INTERVALS	ROTARY TOOLS	CABLE TOOLS
5000			HOW MAI	VY*	DRILLED BY		
5966'		5883'			>	X	
24. PRODUCING INTERVAL(S)	, OF THIS COMPLETION	ОМ-ТОР, ВОТТОМ, М	IAME (MD AND TVD)*				25. WAS DIRECTIONAL
		Gree	en River 5266	' - 5621'			SURVEY MADE
							No
26. TYPE ELECTRIC AND OTH	ER LOGS RUN						27. WAS WELL CORED
	·		GR/CAL - CN/			4-19-2000	No
23,	NEVOVE -			port all strings set in			
CASING SIZE/GRADE 8-5/8	WEIGHT,		317'	12-1/4		MENT, CEMENTING RECORD  1 SX Class "G"	AMOUNT PULLED
4-1/2	11.		5922'	7-7/8		sx Prem Lite II &	
			0022	1-110		0 sx 50/50 Poz	
					1	3 3X 00/30 T 0Z	
29.	LIN	ER RECORD			30.	TUBING RECOR	 ≀D
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8	EOT @ 5405'	TA @ 5248'
			<u> </u>		<u> </u>		
31. PERFORATION RECORD ( <u>INTERV</u> A		ber) <u>SIZE</u>	NUMBER	32.	ACID, SHOT, ERVAL (MD)	FRACTURE, CEMENT S	
5446-49; 5469-74		4 SPF	60 Holes	5446' -			ND OF MATERIAL USED
5266-74; 5277-82; 5286-		2 SPF	80 Holes	5266'			d in 361 bbls gelled water
200 14, 0271 02, 0200	00 & 0000-0004	2011	oo i ioles	5200 -	3304	136,783# 20/40 sand	d in 696 bbls gelled water
	r in the	•		<u> </u>			
33,*		<del>·</del>	PRODU	JCTION			<del></del>
DATE FIRST PRODUCTION	PRODUCTION	N METHOD (Flowing,	gas lift, pumping-size and			WI	ELL STATUS (Producing or shut-in)
3/22/00		·	<del></del>	VAC 16' PUMI			Producing
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL-BBLS.	GASMCF.	WATERBBL.	GAS-OIL RATIO
10 day avg 3/00	24			383	435	1 5	1136
LOW. TUBING PRESS.	CASING PRESSURE	CALCULATED	OIL-BBL.	GASMCF.	100	PEIVE	AV TY-API (CORR.)
		24-HOUR RATE	1 .			m W Im I V Im	
4. DISPOSITION OF GAS (Sold,	used for fuel, vented, etc	•	ad for Fire!			APR TEST WILLED	BY
5. LIST OF ATTACHMENTS	<del></del>	Sold & Use	eu ior Fuel	<del>,</del>			
ogs In Item #26					2°	DIVISION OF	NG
6. I hereby certify that the for	egoing and attached in	nformation is comple	te and correct as deter	mined from all availab	e records OIL	GAS AND MIN	NG
SIGNED ///		10mm	TITLE		ations Secre	atany	DATE 4/17/00

INCIT A PROCE						
CORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.		TOP	
Garden Gulch Mkr	4218'			NAME	MEAS PERFE	TRUE
Garden Gulch 2	4551'				MEAS. DEFIN	VEKI, DEPIH
Point 3 Mkr	4845'					
X Mkr	5087	-				
Y-Mkr	5120'					
Douglas Creek Mkr	5240'					
BiCarbonate Mkr	5522'					
B Limestone Mkr	,9995					
Castle Peak	NDE					
Basal Carbonate	NDE 50667					-
Jean Depui	2900					
		<u>.                                    </u>				
					-	
MONUMENT BUTTE FEDERAL 1-23-8-16	CRAL 1-23-8-	91		-		
						-
			I had a series of the series o			
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			AFR 19 20TH			
			OIL, GAS AND OF			
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RECEIVED

AUG 0 7 2000

DIVISION OF OIL, GAS AND MINING

August 4, 2000

BH k1c-261.1

> Mr. Dan Jarvis State of Utah Division of Oil, Gas and Mining P. O. Box 145801 Salt Lake City, Utah 84114-5801

RE:

Permit Application for Water Injection Well Monument Butte Federal #1-23-8-16 Monument Butte Field, Lease #UTU-76560 Section 23-Township 8S-Range 16E Duchesne County, Utah

Dear Mr. Jarvis:

Inland Production Company herein requests approval to convert the Monument Butte Federal #1-23-8-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

I hope you find this application complete; however, if you have any questions or require additional information, please contact Joyce McGough or George Rooney at (303) 893-0102.

Sincerely,

David Donegan

Manager of Operations

8/4/00



RECEIVED

AUG 0 7 2000

DIVISION OF OIL, GAS AND MINING

August 4, 2000

BH hic-261.1

> Mr. Dan Jarvis State of Utah Division of Oil, Gas and Mining P. O. Box 145801 Salt Lake City, Utah 84114-5801

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Permit Application for Water Injection Well Monument Butte Federal #1-23-8-16 Monument Butte Field, Lease #UTU-76560 Section 23-Township 8S-Range 16E Duchesne County, Utah

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I hope you find this application complete; however, if you have any questions or require additional information, please contact Joyce McGough or George Rooney at (303) 893-0102.

Sincerely,

David Donegan

Manager of Operations

# INLAND PRODUCTION COMPANY APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL MONUMENT BUTTE FEDERAL #1-23-8-16 MONUMENT BUTTE (GREEN RIVER) FIELD LEASE #UTU-76560

August 4, 2000

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### STATE OF UTAH DIVISION OF OIL, GAS AND MINING

**OPERATOR** 

**ADDRESS** 

#### **APPLICATION FOR INJECTION WELL - UIC FORM 1**

Inland Production Company 410 17th Street, Suite 700

List of Attachments: Attachments "A" through "Q"

David Donegan

(303) 893-0102

Manager of Operations

I certify that this report is true and complete to the best of my knowledges

Denver, Colorado 80202

						•	* - 4.	
Well Name and number:	Monument B	utte Fed	eral #1-23-8-	16				· · · · · · · · · · · · · · · · · · ·
Field or Unit name:	Monument B	utte (Gre	en River)			Lease No.	UTU-7656	30
Well Location: QQ <u>NE NE</u>	section	23	_ township _	88	_range	16E	county	Duchesne
Is this application for expansi	on of an existing	project?	?		Yes [X]	No[]		
Will the proposed well be use	D	isposal?	Recovery?		Yes [ ]	No [ X ]		
Is this application for a new walf this application is for an exinal has a casing test been performed Date of test:  API number: 43-013-32093	sting well, ormed on the we							
Proposed injection interval: Proposed maximum injection: Proposed injection zone containile of the well.			to pressure or [] fresh w	5621 1894 vater withi	_ _psig n 1/2			
IMPO	RTANT: A	dditional	information a	as require	d by R615	-5-2 should		

accompany this form.

Signature

Title

Date

Approval Date

Comments:

(State use only)

Application approved by

Name:

Phone No.

Title

#### WORK PROCEDURE FOR INJECTION CONVERSION

- 1. Rig up hot oil truck to casing. Pump water. Unseat pump. Flush rods. Trip out of hole with rods and pump.
- 2. Trip out of hole with tubing, breaking and doping every connection. Trip in hole with packer and tubing. Rig up water truck to casing. Pump packer fluid. Set packer.
- 3. Test casing and packer.
- 4. Rig down, move out.

## Monument Butte Federal #1-23

Spud Date: 2/03/00 Put on Production: 2/25/00 GL: 5341' KB: 5351'

Wellbore Diagram

Initial Production: 156 STBOPD, 100 MCFD, 0 STBWPD

#### SURFACE CASING

CSG SIZE: 8-5/8" GRADE: J-55 WEIGHT: 24# LENGTH: 7 JTS (305.6')

DEPTH LANDED: 317.45' HOLE SIZE: 12-1/4"

CEMENT DATA:

145 sxs Class "G"cmt w/ 2% CaCl2 & 1/4#/sk Cello-Flake (5 bbls to surface)

TOC: 535

#### PRODUCTION CASING

CSG SIZE: 4-1/2" GRADE: J-55 WEIGHT: 11.6 ppf LENGTH: 137 jts (5910') HOLE SIZE: 7-7/8'

CEMENT DATA: 350 sxs Prem Lite II w/ 10% Gel & 3% KCl 550 sxs 50-50 POZ w/ 2% Gel & 3% KCl

CEMENT TOP AT: SET AT: 5921.76' KB

SIZE/GRADE/WT: 2-3/8", "LS", 4.7 ppf

NO. OF JOINTS: 175 jts TUBING ANCHOR: 5248' KB SEATING NIPPLE: 2-3/8"

TOTAL STRING LENGTH: EOT @ 5405' KB

SN LANDED AT: 5311' KB

#### SUCKER RODS

POLISHED ROD: 1-1/2"x22'

SUCKER RODS: 4 1-1/2" wt. Bars, 4-3/4" guided rods, 109-3/4" slick rods, 96-3/4" guided rods, 1-3/4" slick rod, 1-8', 6', 4', 2' ponies

PUMP SIZE: Axelson 20-150-RWAC 16'

STROKE LENGTH: 74"

PUMP SPEED, SPM: 6

LOGS: DIGL, SP, GR, CAL, Neutron, Comp. Density

#### ATTACHMENT M-1



## Inland Resources Inc.

#### Monument Butte Federal #1-23

660' FNL 660' FEL

SWNE Section 23-T8S-R16E

Duchesne Co, Utah

API #43-013-32093; Lease #UTU-76560

### FRAC JOB

2-22-00 5446'-5621'

Frac C/B sands: 45,516# 20/40 sand in 325 bbl Viking I-25 fluid. Perfs broke down at 2880 psi. Treated at avg. pressure of 3200 psi w/ avg, rate of 28 BPM. Screened out.

2-24-00 5266'-5364'

Frac D sands: 138,783# 20/40 sand in 696 bbl Viking I-25 fluid. Perfs broke back at 2750 psi. Treated at avg. pressure of 2300 psi w/avg. rate of 34 bpm. ISIP-2600 psi, 5 min.-2152 psi.



Anchor @ 5248'

**圭** 5266'-5274'

**圭** 5277'-5282'

5286'-5288'

5339-5364'

**丰** 5446'-5449' **達** 5469'-5474' **基** 5614'-5621'

> SN @ 5311' EOT @ 5405'

PBTD @ 5679'

TD @ 5966'

2-24-00	5266'-5274'	2 JSPF	16 holes
2-24-00	5277'-5282'	2 JSPF	10 holes
2-24-00	5286'-5288'	2 JSPF	4 holes
2-24-00	5339'-5364'	2 JSPF	50 holes
2-22-00	5446'-5449'	4 JSPF	12 holes
2 22 22	54603 54543	4 TOTAL	2011
2-22-00	5469'-5474'	4 JSPF	20 holes
2-22-00	5469°-5474° 5614°-5621°	4 JSPF 4 JSPF	20 holes 28 holes

## REQUIREMENTS FOR INJECTION OF FLUIDS INTO RESERVOIRS RULE R615-5-1

- 1. Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.
- 2. A request for agency action for authority for the injection of gas, liquefied petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:
  - 2.1 The name and address of the operator of the project.

Inland Production Company 410 17<sup>th</sup> Street, Suite 700 Denver, Colorado 80202

2.2 A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile of the project area.

See Attachment A-4

2.3 A full description of the particular operation for approval is requested.

Approval is requested to convert the Monument Butte Federal #1-23-8-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

2.4 A description of the pools from which the identified wells are producing or have produced.

The proposed injection well will inject into the Green River Formation.

2.5 The names, description and depth of the pool or pools to be affected.

The injection zone is in the Green River Formation. In the Monument Butte Federal #1-23-8-16 well, the proposed injection zone is from 5266' - 5621'. The confining strata directly above and below the injection zones are the top of the Garden Gulch formation and the Basal Carbonate. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

2.6 A copy of a log of a representative well completed in the pool.

The referenced log for the Monument Butte Federal #1-23-8-16 is on file with the Utah Division of Oil, Gas and Mining.

2.7 A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.

The primary type and source of fluid to be used for injection will be culinary water from the Johnson Water District supply line. The secondary type of fluid to be used for injection will be culinary water from the Johnson Water District commingled with produced water from the Monument Butte Federal 1-23-8-16. The average estimated injection of fluids will be at a rate of 300 BPD, and the estimated maximum injection will be at a rate of 500 BPD.

2.8 A list of all operators and surface owners within one-half mile radius of the proposed project.

See Attachment A-2.

2.9 An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.

See Attachment A-3.

2.10 Any additional information the Board may determine is necessary to adequately review the petition.

Inland Production Company will supply any additional information requested by the Utah Division of Oil, Gas and Mining.

4.0 Establish recovery projects may be expanded and additional wells placed on injection only upon authority from the Board after notice and hearing or by administrative approval.

This proposed injection well is on a Federal lease (Lease #UTU-76560) in the Monument Butte (Green River) Field, and this request is for administrative approval.

#### REQUIREMENTS FOR CLASS II INJECTION WELLS INCLUDING WATER DISPOSAL, STORAGE AND ENHANCED RECOVERY WELLS SECTION V - RULE R615-5-2

- 1. Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.
- 2. The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:
  - 2.1 A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.

See Attachments A-1 and A-4.

2.2 Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper and porosity.

All logs are on file with the Utah Division of Oil, Gas and Mining.

2.3 A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.

A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.

2.4 Copies of logs already on file with the Division should be referenced, but need not be re-filed.

All copies of logs are on file with the Utah Division of Oil, Gas and Mining.

2.5 A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.

The casing program is 8-5/8", 24#, J-55 surface casing run to 317' KB, and 4-1/2" 11.6# J-55 production casing run from surface to 5923' KB. A casing integrity test will be conducted at the time of conversion.

See Attachment G.

2.6 A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.

The primary type and source of fluid to be used for injection will be culinary water from the Johnson Water District supply line. The secondary type of fluid to be used for injection will be culinary water from the Johnson Water District commingled with produced water. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.

2.7 Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.

See Attachments E-1, E-2, E-3 and E-4 (Water Analyses).

2.8 The proposed average and maximum injection pressures.

The proposed average injection pressure will be approximately 1300 psig and the maximum injection pressure will not exceed 1894 psig.

2.9 Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.

The minimum fracture gradient for the Monument Butte Federal #1-23-8-16, for proposed zones (5266' - 5621') calculates at 0.832 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 1894 psig. See Attachment G through G-4.

2.10 Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent.

In the Monument Butte Federal #1-23-8-16, the injection zone (5266' - 5621') is in the Douglas Creek member of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The Douglas Creek member is composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-25' within the Monument Butte area. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

2.11 A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter the improper intervals.

See Attachments C through C-5.

Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One-way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

2.12 An affidavit certifying that a copy of the application has been provided to all operators or owners, and surface owners within a one-half mile radius of the proposed injection well.

See Attachment A-3.

# 2.13 Any other information that the Board or Division may determine is necessary to adequately review the application.

Inland Production Company will supply any requested information to the Board or Division.

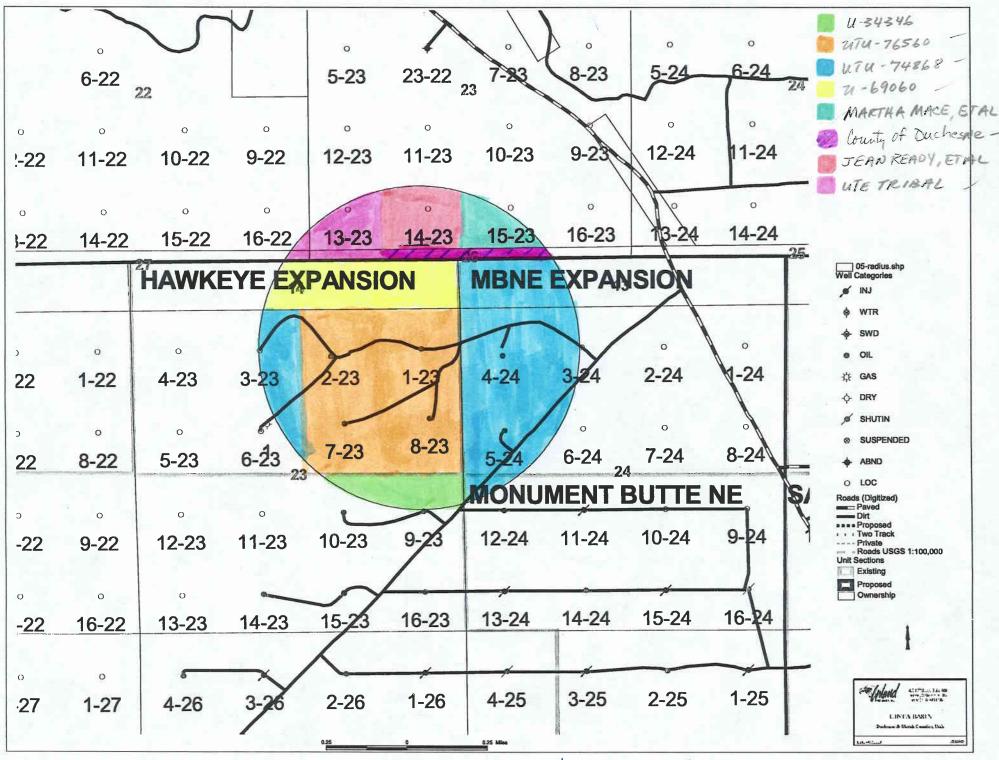
#### ATTACHMENT A

#### **AREA OF REVIEW METHODS**

Give the methods, and if appropriate, the calculations used to determine the size of the area of review (fixed radius or equation). The area of review shall be a fixed radius of 1/4 mile from the well bore unless the use of an equation is approved in advance by the Director.

The area of review shall be a fixed radius of ½ mile from the Monument Butte Federal 1-23-8-16. Inland Production Company has chosen to use a fixed radius of ½ mile to satisfy the requirements of both the EPA and the State of Utah.

Attachment A-1	One-half mile Radius Map
Attachment A-2	Listing of Surface Owners with Addresses
Attachment A-3	Certification for Surface Owner Notification
Attachment A-4	Well Location Plat
Attachment A-5	Name(s) and Address(s) of Surface Owners



MON BUTTE FED #1-23

ATTACHMENT A-1

#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
1	Township 4 South, Range 2 West Section 22: S/2 Section 23: Lots 1, 6, 7, NE/4NE/4, W/2SW/4 Section 24: Lot 1, NE/4SW/4 Section 26: Lot 4 Section 27: Lots 1, 2, 3, 4 Limited to the base of the Green River For is not present or cannot be identified to the		· · · · · · · · · · · · · · · · · · ·	(Surface Rights) Clinton & Donette Moon
2	Township 4 South, Range 2 West Section 26: Lots 1, 2, 3	County of Duchesne, State of Utah	Inland Production Company	(Surface Rights) David Skoufos
3	Township 8 South, Range 16 East Section 23: SE/4 Section 25: W/2NW/4 Section 26: SW/4, N/2SE/4	U-34346 HBP	Inland Production Company Apache Corporation	(Surface Rights) USA

#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
4	Township 8 South, Range 16 East Section 23: NE/4	UTU-76560 HBP	Inland Production Company Citation Oil & Gas Corp Citation 1994 Investment LTD	(Surface Rights) USA
5	Township 8 South Range 16 East Section 13: All (Excluding patent # 813121) Section 22: NE/4 Section 23: NW/4 Section 24: N/2, Excluding Patent (# 8133	UTU-74868 10/18/05	Inland Production Company	(Surface Rights) USA

#	Land Description	Minerals Ownership Expires	& Minerals Leased By	Surface Rights
6	Township 8 South, Range 16 East Section 14: Lots 1-4 Section 15: Lots 1-3 Section 21: Lots 1-4, SE/4NE/4, NW/4SV Section 28: NE/4, S/2NW/4 Section 29: S/2NE/4, W/2, N/2SE/4	UTU-69060 HBP V/4, SE/4	Inland Production Company	(Surface Rights) USA
7	Township 4 South, Range 2 West Section 23: Lots 3, 8, 9, S/2NW/4, NW/4NW/4, SW/4SE/4	Martha W. Mace Hal Wilcken, et ux Leonard Wilcken, et Leslie R. Wilcken, et Verda Wilcken, a wic	ux	(Surface Rights) Larry T. Wilcken

#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
8	Township 4 South, Range 1 West Section 17: Lot 1, NE/4NW/4 Township 4 South, Range 2 West Section 23: Lots 2, 4, NW/4SE/4, E/2SW/4		Leased By and Production Company	(Surface Rights) Harold Pyles
		Sarah J. Davis John C. Pyles		

1-23-8-16 inj.doc.

## ATTACHMENT A-3

#### **CERTIFICATION FOR SURFACE OWNER NOTIFICATION**

RE: Application for Approval of Class II Injection Well Monument Butte Federal #1-23-8-16 I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well. Signed: Inland Production Company David Donegan Manager of Operations Sworn to and subscribed before me this \_\_\_\_\_\_\_ 2000. Notary Public in and for the State of Colorado:

My Commission Expires 11/14/2000

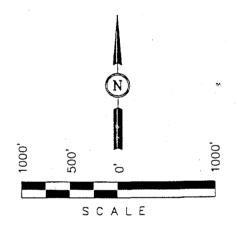
## ATTACHMENT A-4 T8S, R16E, S.L.B.&M.

## INLAND PRODUCTION CO.

Well location, MONUMENT BUTTE FEDERAL #1-23-8-16, located as shown in the NE 1/4 NE 1/4 of Section 23, T8S, R16E. S.L.B.&M. Duchesne County, Utah.

#### BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHEAST CORNER OF SECTION 23, T8S, R16E, S.L.B.&M. TAKEN FROM THE MYTON SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5331 FEET.



2648.78' (Measured)

### CERTIFICATE

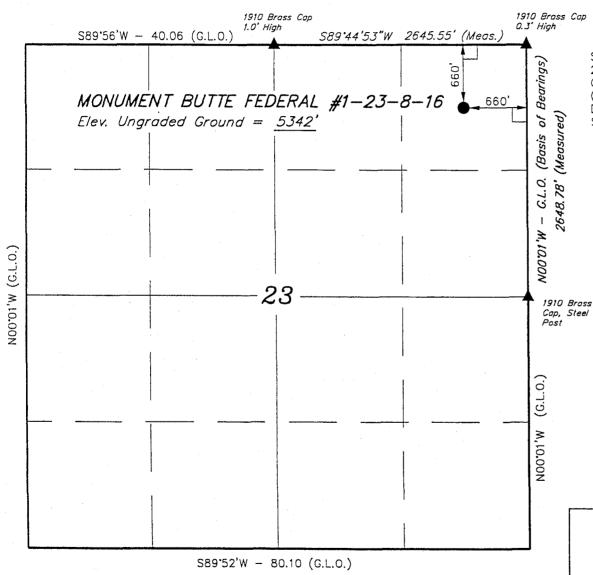
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY MELOR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF

> REGISTERED LAND REGISTION THOR TEXTS 19 STATE OF UTAH KAY

UINTAH ENGINEERING VERNAL UINA 84078 85 SOUTH 200 EAST

(435) 789-1017

1" = 1000'		DATE SURVEYED:	7-9-98
PARTY G.S. J.F.	C.B.T.	REFERENCES G.L.O. PLA	Т
WEATHER		FILE	
НОТ		INLAND PRODU	CTION CO.



#### LEGEND:

90' SYMBOL

= PROPOSED WELL HEAD.

= SECTION CORNERS LOCATED.

#### **ATTACHMENT A-5**

## Names and Addresses of Surface Owners

1. USA

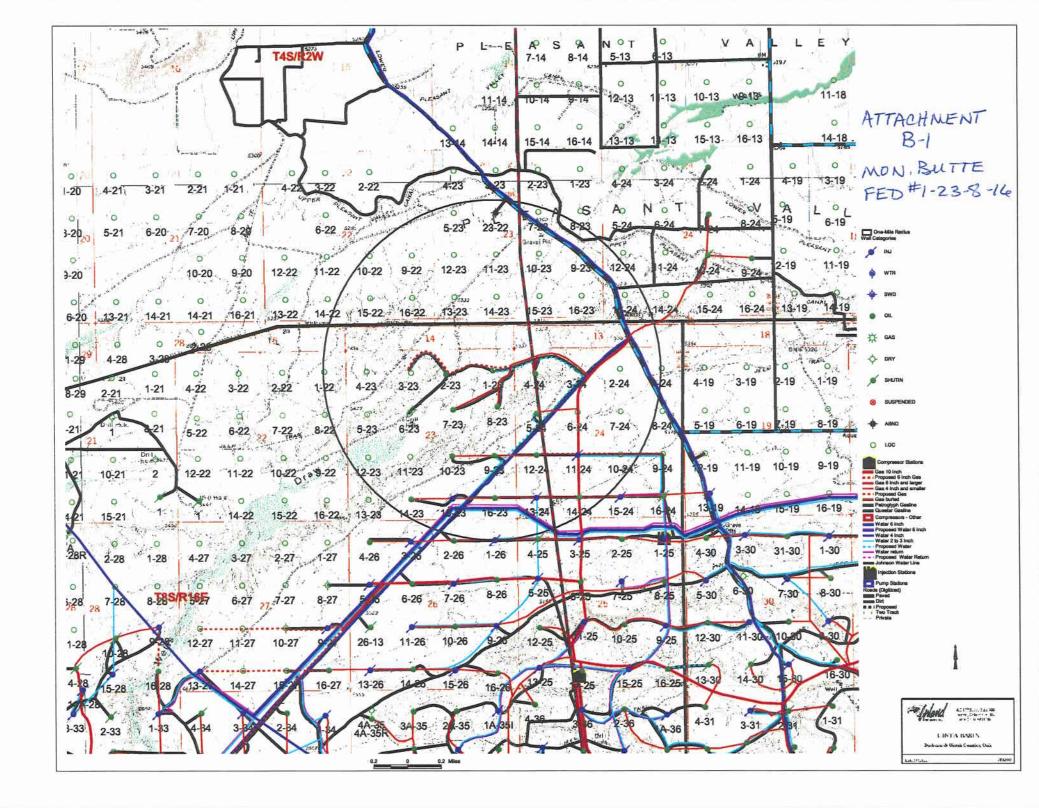
#### ATTACHMENT B

#### MAPS OF WELLS/AREA AND AREA OF REVIEW

Submit a topographic map, extending one mile beyond the property boundaries, showing the injection well(s) or project area for which a permit is sought and the applicable area of review.

There are no hazardous waste, treatment, storage or disposal facilities within a one-mile radius of the property boundaries.

Attachment B-1 Area of Review and Existing/Proposed Waterlines



#### ATTACHMENT C

#### CORRECTIVE ACTION PLAN AND WELL DATA

Submit a tabulation of data reasonably available from public records or otherwise known to the applicant on all wells within the area of review, including those on the map required in Attachment B, which penetrate the proposed injection zone.

Step rate tests will be performed periodically to determine the fracture pressure. The injection pressure will be kept under the fracture pressure.

Attachment C-1	Wellbore Diagram – Monument Butte Federal #2-23-8-16
Attachment C-2	Wellbore Diagram - Monument Butte Federal #7-23-8-16
Attachment C-3	Wellbore Diagram – Monument Butte Federal #8-23-8-16
Attachment C-4	Wellbore Diagram – Monument Butte Federal #4-24-8-16
Attachment C-5	Wellbore Diagram – Monument Butte Federal #5-24-8-16

## Monument Butte Federal #2-23

Spud Date: 2/11/00 Put on Production: 3/11/00 GL: 5361' KB: 5371'

#### Wellbore Diagram

Initial Production: ?

#### SURFACE CASING FRAC JOB CSG SIZE: 8-5/8" 3-2-00 5619'-5625' Frac B sands: 56,834# 20/40 sand in 425 bbl Viking I-25 fluid. Perfs broke GRADE: J-55 down at 3800 psi. Treated at avg. pressure of 2700 psi w/ avg, rate of 30 WEIGHT: 24# BPM. ISIP-3200 psi, 5 min.-2335 psi LENGTH: 7 JTS (293') 3-7-00 5482'-5488' Frac C sands: 41,060# 20/40 sand in 270 DEPTH LANDED: 304.85° bbl Viking I-25 fluid. Perfs broke down HOLE SIZE: 12-1/4" at 3762 psi. Treated at avg. pressure of 2900 psi w/ avg. rate of 28.7 bpm. W/ 6# sand on perfs blender tub stacked out. 141 sxs Class "G"cmt w/ 2% CaCl2 & CEMENT DATA: 1/4#/sk Cello-Flake (6 bbls to surface) Shut down frac, cleaned tub. Restarted frac, screened out. Est. 16,000# sand in formation, 25,000# in csg. 3-8-00 5267'-5298' Frac D sands: 76,857# 20/40 sand in 491 bbl Viking I-25 fluid. Perfs broke down at 3380 psi. Treated at avg. pressure of 2300 psi w/ avg. rate of 34.9 BPM. ISIP-2750 psi, 5 min.-2422 psi. PRODUCTION CASING CSG SIZE: 5-1/2" GRADE: J-55 WEIGHT: 15.5 ppf LENGTH: 140 jts (5939') HOLE SIZE: 7-7/8" CEMENT DATA: 250 sxs Prem Lite II w/ 10% Gel & 3% KCl 400 sxs 50-50 POZ w/ 2% Gel & 3% KCl CEMENT TOP AT: 1 00 SET AT: 5950.42' KB TUBING SIZE/GRADE/WT: 2-7/8"6.5ppf J-55 NO. OF JOINTS: 182 jts (5684') TUBING ANCHOR: 5600,25' KB SEATING NIPPLE: 2-7/8" TOTAL STRING LENGTH: EOT @ 5698.33' KB SN LANDED AT: 5634,25' KB Anchor @ 5600' KB SUCKER RODS PERFORATION RECORD 3-7-00 5267'-5274' 4 JSPF 28 holes **±** 5267'-5274' 4 JSPF 12 holes 3-7-00 5287'-5290' 5287'-5290' 3-7-00 5292'-5298' 4 JSPF 24 holes 5292'-5298' 3-6-00 5482'-5488' 4 JSPF 24 holes 3-2-00 5619'-5625' 4 JSPF 24 holes **5**482'-5488'. **主** 5619'-5625' SN @ 5634'KB EOT @ 5698' KB Inland Resources Inc. PBTD @ 5882'

TD @ 6001'



#### Monument Butte Federal #2-23

766' FNL 2135' FEL NWNE Section 23-T8S-R16E Duchesne Co, Utah API #43-013-32094; Lease #UTU-76560

#### ATTACHMENT C-2

## Monument Butte Federal #7-23

Spud Date: 12/16/99 Put on Production: 1/19/00 GL: 5365' KB: 5375'

SURFACE CASING

LENGTH: 7 jts. (314.29') DEPTH LANDED: 326.08

HOLE SIZE: 12-1/4"

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

Wellbore Diagram

Initial Production: 104 BOPD

#### FRAC JOB

1/17/00 5241'-5267'

Frac D sand as follows: 50,000# 20/40 sand in 354 bbls Viking I-25 fluid. Perf Brokedown @ 2450 psi. Treated @ avg press of 1800 psi, w/avg rate of 26 BPM. ISIP: 1880 psi, 5-min 1716 psi., 10-min 1582 psi. Flowback on 12/64 choke for 3 hours and died.

#### PRODUCTION CASING

15.8 ppg W 1.17 cf/sk yield, Est. 2 bbl to surface

CSG SIZE: 4-1/2"

GRADE: J-55

WEIGHT: 11.6#

LENGTH: 142 its. (5950.6')

DEPTH LANDED: 5948.2' KB

HOLE SIZE: 7-7/8"

CEMENT DATA:

340 sxs Premlite II + 0.5% S.M. + 10% Gel +3#/sk CSE + 2#/sk Kol-Seal + 3% KCI +

0.25#/sk cello-flake

CEMENT DATA: 141 sxs Class "G" w/ 2% CaCl2 & 0.25#/sk celloflake.

525 sxs 50/50 Poz + 3% KCl + 0.25#/sk cello-flake + 2% Gel + 3% S.M.

CEMENT TOP A.P. 528' per CBL

#### TUBING

SIZE/GRADE: 2-3/8" LS

NO. OF JOINTS: 169 jts

TUBING ANCHOR: 5215.42' KB

SEATING NIPPLE: (1.10')

TOTAL STRING LENGTH: EOT @ 5312.52' KB

SN LANDED AT: 5250.61' KB

#### SUCKER RODS

POLISHED ROD: 1-1/4" x 22'

SUCKER RODS: 1-8', 1-4', 1-2' X 3/4" Pony Rods, 90 3/4" Scrapered Rods, 105 3/4" Plain rods, 10 3/4" Scrapered Rods, 4 1-1/2" Weight Rods

PUMP SIZE: 2" x 1-1/2" x 16' RHAC rod pump w/ SM plunger

STROKE LENGTH: 72"

PUMP SPEED, SPM: 6 SPM

LOGS:DIGL, GR, SP, Compensated Density, CBL-GR

PERFORATION RECORD

1/15/00 5241'-5244' 4 SPF 12 holes 1/15/00 5258'-5267' 4 SPF

Anchor @ 5215' KB

5241'-44'

5258'-67'

SN @ 5251' KB EOT @ 5313' KB Sand Top @ 5837' KB PBTD @ 5884' KB TD @ 5950'



## Inland Resources Inc.

#### Monument Butte Federal #7-23-8-16

1861 FNL 1932 FEL

SWNE Section 23-T8S-R16E

Duchesne Co, Utah

API #43-013-32100; Lease #UTU-76560

#### ATTACHMENT C-3

## Monument Butte Federal #8-23

Spud Date: 11/28/00 Put on Production: 12/31/99 GL: 5393.6' KB: 5403.6'

#### Wellbore Diagram

#### SURFACE CASING FRAC JOB CSG SIZE: 8-5/8" 5455'-5490' 12-23-99 Frac C sands: 62.802# 20/40 sand in 513 bbl Viking I-25 fluid. Perfs broke GRADE: J-55 down at 2750 psi. Treated at avg. WEIGHT: 24# pressure of 1700 psi w/ avg, rate of 26 BPM. ISIP-2500 psi, 5 min.-2400 psi. LENGTH: 7 JTS (313') Frac D sands: 70,255# 20/40 sand in 477 bbl Viking I-25 fluid. Perfs broke down 5287'-5369' 12-23-99 DEPTH LANDED: 324.84' KB HOLF SIZE: 12-1/4" at 2100 psi. Treated at avg. pressure of 1350 psi w/ avg. rate of 30 bpm. ISIP-CEMENT DATA: 141 sxs Class "G"cmt w/ 2% CaCl2 & 2150 psi, 5 min.-2030 psi. 1/4#/sk Cello-Flake (3 bbls to surface) PRODUCTION CASING CSG SIZE: 5-1/2" GRADE: J-55 WEIGHT: 15.5 ppf LENGTH: 147 jts (6279') HOLE SIZE: 7-7/8" CEMENT DATA: 311 sxs Prem Lite II w/ 10% Gel & 3% KCl &0.5% S.M. & 3#/sk CSE & 2#/sk Kol-Seal & 1/4#/sk Cello-Flake 522 sxs 50-50 POZ w/ 2% Gel & 3% KCl & 3% S.M. & 1/4#/sk Cello-Flake 20 bbl dye to sfc. CEMENT TOP AT: 7 80% to 7100 SET AT: 6290.63' KB TUBING SIZE/GRADE/WT: 2-7/8" 6.5ppf M-50 NO. OF JOINTS: 181 jts TUBING ANCHOR: 5441.25' KB SEATING NIPPLE: 2-7/8" 1.1' TOTAL STRING LENGTH: EOT @ 5601.44' KB SN LANDED AT: 5537.68' KB Anchor @ SUCKER RODS POLISHED ROD: 1-1/2"x22" PERFORATION RECORD SUCKER RODS: 8-1" scrapered rods, 4-3/4" scrapered rods, 113-3/4" plain 12-23-99 5287'-5299' 4 JSPF 48 holes **圭** 5287'-5299' rods, 94-3/4" scrapered rods, 1-3/4" plain rod, 1-8', 6', 4', 2' ponies 12-23-99 5364'-5369' 4 JSPF 20 holes PUMP SIZE: Randy's 2-1/2 x 1-1/2 x 16' RHAC w/ SM plunger 5364'-5369' 12-23-99 5455'-5458' 4 JSPF 12 holes STROKE LENGTH: 76" 12-23-99 5468'-5470' 4 JSPF 8 holes PUMP SPEED, SPM: 4 5455-5458' 12-23-99 5476'-5482' 24 holes 4 JSPF LOGS: DIGL, SP, GR, CAL, Neutron, Comp. Density 12-23-99 5484'-5490' 4 JSPF 24 holes 5468'-5470' **圭** 5476'-5482' **圭** 5484'-5490'

SN @ 5538'

PBTD @ 6128'

TD @ 6305'

EOT @ 5601.44' KB



## Inland Resources Inc.

#### Monument Butte Federal #8-23

1787' FNL 535' FEL

SENE Section 23-T8S-R16E

Duchesne Co, Utah

API #43-013-32101; Lease #UTU-76560

## Monument Butte Federal #4-24

Spud Date: 2/19/00 Put on Production: 3/16/00 GL: 5371' KB: 6011'

Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8" GRADE: I-55

WEIGHT: 24#

LENGTH: 7 JTS (306')

DEPTH LANDED: 297' KB

HOLE SIZE: 12-1/4"

CEMENT DATA:

141 sxs Class "G"cmt w/ 2% CaCl2 &

1/4#/sk Cello-Flake (4 bbls to surface)

#### PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55 WEIGHT: 17#

LENGTH: 192 jts J-55 (5955')

HOLE SIZE: 7-7/8"

CEMENT DATA: 250 sxs Prem Lite II w/ 10% Gel & 3% KCl & .5%

S.M. & 3#/sk CSE & 2#/sk Kol-Seal &

1/4#/sk Cello-Flake

400 sxs 50-50 POZ w/ 2% Gel & 3% KCl & 1/4#/sk Cello-Flake & 3% S.M. (20 bbl dye to sfc)

CEMENT TOP AT: 620

SET AT: 5950' KB

#### **TUBING**

SIZE/GRADE/WT: 2-7/8"6.5ppf LS NO. OF JOINTS: 175 jts (5714.68') TUBING ANCHOR: 5457' KB

SEATING NIPPLE: 2-7/8" x 1.10'

TOTAL STRING LENGTH: EOT @ 5585 KB

SN LANDED AT: 5521 KB

#### SUCKER RODS

1-1/4" x 22' polished rod

4-1-1/2" weight rods "A"

10-3/4" scrapered rods "B"

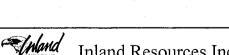
111-3/4" plain rods "A"

94-3/4" scrapered rods "B" 1-8'& 4'& 6' x7-8" pony rods "B"

Randy's 2-1/2 x 1-1/2 x 15' RWAC pump w/ 12' diptube

Stroke Length: 74"

Speed: 6 spm



### Monument Butte Federal #4-24

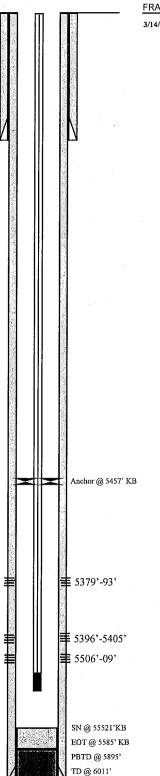
Inland Resources Inc.

783' FNL 675' FWL

NWNW Section 24-T8S-R16E

Duchesne Co, Utah

API #43-013-32097; Lease #UTU-74868



#### FRAC JOB

3/14/00 5379'-5509'

Frac D sands: 115,000# 20/40 sand in 615 bbls Viking I-25 fluid. Perfs broke back @ 1550 psi @ 35 BPM. Treated @ avg press of 1700 psi w/avg rate of 36.2 BPM. ISIP 2680 psi, 5 min 1701 psi. RD BJ. Flowback D/C Sands on 12/64" chk for 3-1/2 hrs & died. Rec 135 BTF (est 22% of load). TIH w/pinned NC & tbg. Tag sand @ 5788'. Well flwd & tbg displaced add'l 31 BF on TIH. C/O sand to PBRD 5955'. Circ hole clean. Pull Eot to 5882'. SIFN w/est 459 BWTR

PERFORATION RECORD

4 JSPF 3/13/00 5506'-5509' 12 holes 3/13/00 5396'-5405' 4 JSPF 36 holes 3/13/00 5379'-5393' 4 JSPF 12 holes

#### ATTACHMENT C-5

## Monument Butte Federal #5-24

Spud Date: 12/7/99 Put on Production: 1/15/00 GL: 5426' KB: 5436'

#### Wellbore Diagram

#### SURFACE CASING FRAC JOB CSG SIZE: 8-5/8" 1-11-00 5286'-5381' Frac D sands: 52,906# 20/40 sand in 361 bbl Viking I-25 fluid. Perfs broke GRADE: J-55 down at 2503 psi. Treated at avg. WEIGHT: 24# pressure of 2000 psi w/ avg, rate of 31.7 BPM. ISIP-2220 psi, 5 min.-2068 psi LENGTH: 7 JTS (306') Frac A sands: 33,387# 20/40 sand in 223 bbl Viking I-25 fluid. Perfs broke down 1-10-00 5810'-5830' DEPTH LANDED: 317.67' KB HOLE SIZE: 12-1/4" at 3040 psi. Treated at avg. pressure of 3700 psi w/ avg. rate of 27 bpm. W/ 6# CEMENT DATA: 141 sxs Class "G"cmt w/ 2% CaCl2 & sand on perfs frac screened out. Est. 1/4#/sk Cello-Flake (4 bbls to surface) 16,557# sand in formation, 16,830# in csg. PRODUCTION CASING CSG SIZE: 4-1/2" GRADE: J-55 and N-80 WEIGHT: 11.6 ppf LENGTH: 73 jts N-80 and 73 jts J-55 (5982') HOLE SIZE: 7-7/8" CEMENT DATA: 370 sxs.Prem Lite II w/ 10% Gel & 3% KCl & .5% S.M. & 3#/sk CSE & 2#/sk Kol-Seal & 1/4#/sk Cello-Flake 400 sxs 50-50 POZ w/ 2% Gel & 3% KCl & 1/4#/sk Cello-Flake & 3% S.M. (20 bbl dye to sfc) CEMENT TOP AT: 3290 SET AT: 5993.42' KB TUBING SIZE/GRADE/WT: 2-3/8"4.7ppf LS NO. OF JOINTS: 185 jts (5714.68') TUBING ANCHOR: 5598,92' KB SEATING NIPPLE: 2-3/8" x 1.10" TOTAL STRING LENGTH: EOT @ 5762.04' KB SN LANDED AT: 5633.65' KB Anchor @ 5599' KB SUCKER RODS 1-1/4" x 22' polished rod 89-3/4" scrapered rods "A" PERFORATION RECORD 121-3/4" plain rods "B" 1-11-00 5286'-5298' 4 JSPF 48 holes **圭** 5286'-5298' 10-3/4" scrapered rods "A" 1-11-00 5375'-5381' 4 JSPF 24 holes 4-1 1/2" weight rods "B" **圭** 5375'-5381' 1-10-00 16 holes 5810'-5814' 4 JSPF Axelson 2 x 1-1/2 x 16' RWAC pump w/ 12' diptube 1-10-00 5827'-5830' 4 JSPF 12 holes Stroke Length: 86" Speed: 4 spm **菲** 5810'-5814' 5827'-5830'

SN @ 5633.65'KB

EOT @ 5762' KB

PBTD @ 5949'

TD @ 6000'



## Inland Resources Inc.

#### Monument Butte Federal #5-24

2003' FNL 690' FWL

SWNW Section 24-T8S-R16E

Duchesne Co, Utah

API #43-013-32099; Lease #UTU-74868

#### ATTACHMENT D

## **Drilling and Completion Reports**

This information has been requested as additional information to be included as part of the injection conversion application.



#### MB FED 1-23-8-16

NE/NE Section 23 - T8S - R16E Duchesne Co., UT API # 43-013-32093 Spud Dat

2/3/00

TD

5950' UNION #14

Drlg Rig UNION #

Report Date	2/4/00	Days Since Spud 1	Depth:	343	Footage	343'
Time		Operation				
8.00	HRS	MIRU UNION #14 & set equipment. Drill	mouse hole & rat hole.			
1.00	HRS	Drill 23' of 17-1/2" hole & set conductor pi	pe. Spudded well @ 7:0	0PM 2/3/00.		
1.00	HRS	NU & install airhead rubber				
5.50	HRS	Drill 12-1/4" hole to 343'				
1.50	HRS	Blow hole clear. TOH w/BHA	•			•
1.00	HRS	ND cellar, pull conductor				
1.75	HRS	MU & RIH w/8-5/8" guide shoe, 7 jts 24# J	-55 8-5/8" csg (305.60').	Landed @ 317	KB	
0.50	HRS	Cement as follows: 20 bbls dye, 20 bbls ge yield. Plug down @ 4:20AM 2/4/00. 5 bbl		% CaCl2 mixed	@ 15.8 ppg & 1.17	
0.50	HRS	WOC				

Daily Cost \$13,362 Cumulative Cost \$13,362

Report Date	2/5/00	Days Since Spud 2	Dep	oth:	1200	Footage	857'
Time		Operation					
2.50	HRS	WOC					
5.50	HRS	NU BOP stack. Pressure test kelly. 1500 psi.	TIH w/choke manifol	d & BOP's to	2000 psi. Press	test surf csg to	
1.00	HRS	TIH w/bit #3 & BHA, blow well dry	I				
1.00	HRS	Drill cement, plug & shoe					
3.00	HRS	Drill 7-7/8" hole f/343-524'					
0.50	HRS	RS & survey: 1/4 degree @ 482'					
6.75	HRS	Drill 7-7/8" hole f/524-1015'					
0.50	HRS	Change airhead rubber					
0.50	HRS	RS & survey: 1/2 deg @ 975'					
2.75	HRS	Drill 7-7/8" hole f/1015 to 1200'		· .			

Daily Cost \$13,357 Cumulative Cost \$26,719

Report Date 2/6/00 Days Since Spud 3 Depth: 2331 Footage 1131'



## **DAILY DRILLING REPORT**

Time		Operation
2.25	HRS	Drill 7-7/8" hole to 1373'
1.00	HRS	Rig service
1.75	HRS	Drill 7-7/8" hole to 1497'
0.25	HRS	Survey
4.50	HRS	Drill 7-7/8" hole to 1775'
0.75	HRS	Rig service
4.50	HRS	Drill 7-7/8" hole to 2053'
0.50	HRS	Survey
0.75	HRS	Drill 7-7/8" hole to 2105'
3.00	HRS	TOH for bit failure. TIH w/bit #4 & BHA
0.75	HRS	Wash 20' to btm
4.00	HRS	Drill 7-7/8" hole to 2331'

Daily Cost \$13,651 Cumulative Cost \$40,370

Report Date	2/7/00	Days Since Spud	4	Depth:	3783	Footage	1452'
Time		Operation					
2.00	HRS	Drill 7-7/8" hole to 2548'					
1.50	HRS	Rig service & survey					
6.25	HRS	Drill 7-7/8" hole to 3040'					
0.50	HRS	Rig service & survey					
4.25	HRS	Drill 7-7/8" hole to 3381'					
1.00	HRS	Work kellytight hole					
8.00	HRS	Drill 7-7/8" hole to 3783'					
0.50	HRS	Blow hole & load w/water					

Daily Cost \$16,872 Cumulative Cost \$57,242

Report Date	2/8/00	Days Since Spud 5	Depth:	4475	Footage	692'
Time		Operation				
0.75	HRS	C&C hole w/water				
4.50	HRS	TOH for fluid bit & MM. TIH w/bit #5, N	им & вна			
1.75	HRS	Load hole, wash to btm				
6.25	HRS	Drill 7-7/8" hole to 4023'				
0.50	HRS	Rig service & survey				
6.25	HRS	Drill 7-7/8" hole to 4328'				
0.25	HRS	Rig service				
2.75	HRS	Drill 7-7/8" hole to 4475'				

Daily Cost \$10,210 Cumulative Cost \$67,452

Report Date 2/9/00 Days Since Spud 6 Depth: 5400 Footage 925'



## **DAILY DRILLING REPORT**

Time		Operation	
2.00	HRS	Drill 7-7/8" hole to 4543'	
1.00	HRS	Rig service & survey	
8.00	HRS	Drill 7-7/8" hole to 4883'	
0.25	HRS	Rig service	
5.00	HRS	Drill 7-7/8" hole to 5097'	
0.50	HRS	Rig service & survey	
7.00	HRS	Drill 7-7/8" hole to 5400'	

Daily Cost \$10,969 Cumulative Cost \$78,421

Report D	ate	2/10/00	Days Since Spud 7	Depth:	5966	Footage	566'
	Time		Operation				
	2.00	HRS	Drill 7-7/8" hole to 5470'				
	1.00	HRS	Rig service				
	7.25	HRS	Drill 7-7/8" hole to 5748'				
	0.25	HRS	Rig service				
	5.75	HRS	Drill 7-7/8" hole to 5950'. TD well @ 10:1	5PM 2/9/00.			
	1.75	HRS	C&C hole, stand back kelly, & survey (2 de	eg @ 5950')			
	6.00	HRS	LD DS, DC's & BHA. RU loggers & run I Gamma Ray/Caliper Log	Oual Induction/Guard Log	g/SP Compensat	ed Density Neutron	

Daily Cost \$15,642 Cumulative Cost \$94,063

Report D	ate	2/11/00	Days Since Spud	8	Depth:	5966	Footage	0'
	Time		Operation					
	5.00	HRS	RU Loggers & run Dual induc	ction/Guard Log/SP C	Compensated De	nsity Neutron Ga	mma Ray/Caliper log	
	3.50	HRS	PU & MU 4-1/2" guide shoe,	1 jt., FC, 136 jts 4-1/	2" 11.6# J-55 cs	sg @ 5921.8		
	2.50	HRS	C&C hole, RU BJ. Cement as & 3% KCL mixed @ 14.4 ppg >1.24 yield.				_	l ·
	1.50	HRS	Plug down @ 5:03PM 2/10/06 Release rig @ 10:00PM 2/10/0 *****FINAL REPORT****			ng weight. RDB	J. Clean & dump pits	

Daily Cost \$50,373 Cumulative Cost 144,436



#### COMPLETION REPORT

MB FED 1-23-8-16

NE/NE Section 23 - T8S - R16E

Duchesne Co., UT

API # 43-013-2093

Report Date

Day

Spud Dat

2/3/00

TD

Completion or Workover Rig

KFS #57

Completing - TOH w/tbg

Date Work Performed 2/19/00

2/20/00

MIRU KES #57. Pressure test csg & head to 2,000 psi for 30 min. Install 2-3/8" ram blocks in BOP's. NU frac head, BOP's & tbg equipment. PU & MU 3-3/4" bit & 4-1/2" csg scraper. Tally & drift 2-3/8" tbg off the rack. Total of 191 jts tbg, tag PBTD @ 5879.16'. TOH w/2 jts tbg. EOT 5838'. SWIFN.

Daily Cost \$2.065 Cumulative Cost \$2,065

Report Date 2/22/00 Day 2 Completing - Frac & Perf

Date Work Performed

RU swab equipment. Swab FL down to 4900'. Rec 68 BTF. TOH w/tbg. LD bit & scraper. RU Schlumberger & perf C/B Sands @ 5446-49', 5469-74' & 5614-21' w/4 JSPF. SIFN.

Daily Cost \$24,705 Cumulative Cost \$26,770

Report Date 2/23/00 Day 3

Completing - Swabbing

Date Work Performed 2/22/00

Bleed gas off csg. NU BJ Services ram head flange to BOP: RU BJ to tac C/B Sands Lole filled w/68 bbls pad fluid. Perfs broke dwn @ 2880 psi. Treated @ avg press of 3200 psi w/avg rate of 28 BPM. With sand on perfs, pressure increased rapidly. No rate increase was available. Sand was cut @ blender @ 6 ppg. Flushed 1470 gals before max press was achieved & screened out w/5# sand on perfs. Pumped 45,516# 20/40 sand in 361 bbls Viking I-25 fluid & 16 bbls fluid ahead of frac. Est 36,451# sand in perfs, 9,065# sand left in csg. RD BJ. Discovered malfunction w/BOP. Flow back est'd 5 BTF. TIH w/NC & tbg. Flow & displace add'l 18 BTF on TIH. Stage out sand laden fluid @ 3000'. Tag solid sand @ 5441'. C/O sand to PBTD @ 5883'. Circ hole clean. No fluid loss. TOH w/tbg & NC. RU Schlumberger & set 4-1/2" "HE" RBP @ 5400'. RD WLT. ND BOP (send for repairs). SIFN w/est 354 BWTR. STIM DETAIL:

4000 gals of pad

1000 gals w/1-5 ppg of 20/40 sand

8702 gals w/5-6 ppg of 20/40 sand (of 10,000 gal stage)

Flush w/1470 gals of slickwater (2074 gals short of top perf)

\*\*\*Screened out w/5# sand on perfs; est 36,451# sand in formation & 9,065# sand left in csg

Max TP 4200, Avg TP 3200; Max Rate 29 BPM, Avg Rate 28 BPM

Total fluid pumped 361 bbls, total prop pmpd 45,516#

Daily Cost \$26,745 Cumulative Cost \$53,515

Report Date 2/24/00 Day 4

Completing - Frac

Date Work Performed

NU Cameron 6" 5M BOP. Fill csg w/10 BW. Press test BOP seals to 3500 psi. TIH w/NC & tbg to 5362'. Displaced 10 BW on TIH. Swab FL dwn to 4750'. Rec 66 BTF. TOH w/tbg & NC. RU Schlumberger & perf "D" sands 5266-74', 5277-82', 5286-88' & 5339-5364' w/2 JSPF @ 180 deg phasing. RD WLT. TIH w/NC & tbg 5362'. RU swab equip. IFL @ 2900'. Made 4 swab runs, rec'd 19 BTF (est 11 BO, 8 BW). FOC @ 60% w/strong gas. FFL @ 2900'. TOH w/tbg & NC. SIFN w/est 280 BWTR.



#### COMPLETION REPORT

Daily Cost \$5,354 Cumulative Cost \$58,869

Report Date 2/25/00 Day 5 Completing - Trip prod tha

Date Work Performed 2/24/00

SICP 650 psi (leave on well). Rt BJ Services & frac "D" sands w/138,783# 20/40 sd in 696 bbls Viking I-25 fluid. Hole filled w/22 bbls pad fluid (est 1500' entry overnight). Perfs broke back @ 2750 psi @ 27 BPM. Had some visible breaks: Treat @ avg press of 2300 psi w/avg rate of 34 BPM. ISIP 2600 psi, 5 min 2152 psi. RD BJ. Flowback "D" sand frac on 12/64" choke for 3 hrs & died. Rec 98 BTF (est 14% of "D" sd frac load) w/tr oil & gas @ end. Well flwg small amt. TIH w/RH & tbg. Circ out oil & gas @ 3000'. Flow & displace add'l 24 bbls on TIH. Tag sd @ 5347'. Rev. circ out sd to RBP @ 5400'. Lost est 55 BW during circ. Release plug. TOH w/tbg. LD plug. TIH w/NC & tbg. Tag sd @ 5746'. Pull EOT to 5580'. SIFN w/est 909 BWTR.

STIM DETAIL: 4000 gals of pad 1000 ga;s w/1-5 PPG 20/40 sand 12,000 gals w/5-7ppg of 20/40 sand 8882 gals w/7-9 ppg of 20/40 sand Flush w/3360 gals of slickwater Max TP 3374, Avg TP 2300, ISIP 2600, 5 min 2152 Max Rate 35 BPM, Avg Rate 34 BPM

Total fluid pmpd: 696 bbls; total prop pmpd: 138,783#

Daily Cost \$37,533 Cumulative Cost \$96,402

Report Date 2/26/00 Day 6 Completing - Flow Test

Date Work Performed 2/25/00

TIH w/2 its tbg. EOT @ 5644'. RU swab equip. IFL @ surface. Made 2 swab runs, rec'd 38 BW. Well began flowing. Regulate flow to 1/2 to 1 BPM fluid w/strong gas. Heavy sand in early samples but cleaned up after flwg approx 100 BF. Rec est 277 BTF today (184 BW & 93 BO). RU line to production tank. Begin flwg well to tanks @ 2:30PM w/18 BPH last 2 hrs & 80% oil cut. Est 725 BWTR.

Daily Cost \$2.018 Cumulative Cost \$98.420

Report Date 2/27/00 Day 7 Completing - Flow Test

Date Work Performed 2/26/00

SICP 1000 psi. Well flwd 311 BO & no water last 14 hrs (22 BPH avg) @ 225 FTP. Switch production through treater & leave well flwg through weekend. Est 725 BWTR.

Daily Cost \$330 Cumulative Cost \$98,750

Report Date 2/29/00 Day 8 Completing - Flow Test

Date Work Performed 2/28/00

SICP 1050 psi. Well flwd 429 BO & 41 BW last 20 hrs (23.5 BPH avg) @ 450 FTP. Est 455 mcfd gas sales/day through 12/64" choke. LD out of the derrick 8 its tbg. Replace rig slips with rentals. Lock pipe rams shut. RD service rig & move off locn.

Daily Cost \$1,319 Cumulative Cost 100,069



COMPLETION REPORT

Report Date 3/22/00

Day 9

Date Work Performed 3/21/00 Completing - Run Prod

MIRU Basin #1. Pump 40 BC dwn tbg followed w/100 BW @ 250 degrees & RU wax cutter. Cut wax to 5200' & RD wax truck. RU hot oil truck & flush tbg w/25 BW. RU tbg equipment & TIH w/1 jt tbg, tag sand @ 5648'. RU pump to circ, pumped 140 BW to brk circ. C/O to 5679', lost 233 BW to well. RD pump & LD 2 jts tbg & POOH w/183 jts tbg. ND BOP & frac head. NU production wellhead & NU BOP. TIH w/170 jts tbg, 4-1/2" TA, 2 jts tbg, 2-3/8" SN, 1 perf jt, 2 jts tbg, 2-3/8" bull plug & collar. LD 7 jts tbg & ND BOP. Try to set TA, but TA would not set. NU BOP & drain up pump lines. SWIFN. EWTR 358 bbls ECTR 40 bbls.

Daily Cost \$3,900 Cumulative Cost 103,969

Report Date 3/23/00

Day 10

Completing - Run Prod

Date Work Performed

Blow well down. RU floor and tongs, try to set TA. TA would not set, POOH w/tbq & TA. TA was stuck with sand. cleaned it up & TIH w/same tbg detail. ND BOP & work TA w/tongs, finally got TA to set @ 5248' in 12,000# tenstion. NU wellhead & hook up flowlines. Had to pump 25 BW down tog to kill well. RU rod equipment & TIH w/Axelson 20-150-16' pump w/dip tube, 4 wt bars, 4 - 3/4" guided rods, 109 - 3/4" slick rods, 96 - 3/4" guided rods, 1 - 3/4" slick rod, 1- 8' pony rod, 1 - 6' pony rod, 1 - 4' pony rod, 1 - 2' pony rod & 1 - 1-1/4" x 22' polish rod. Fill tbg w/4 BW and stroke pump up to 800 psi. Hang head and space out pump. Start well pumping @ 5:00PM w/6 SPM & 74" SL. EWTR 387 bbls, ECTR 40 bbls.

Daily Cost \$4,000 Cumulative Cost 107,969

#### ATTACHMENT E

#### NAME AND DEPTH OF USDWs

For Class II wells, submit geologic name and depth to bottom of all underground sources of drinking water, which may be affected by the injection.

Due to the location and depth of the well, it will not affect any source of drinking water. See Attachments E-1 through E-4, showing pertinent water analyses.

- Attachment E-1 Water analysis of the primary fluid to be injected (Unichem Water Analysis of the Johnson Water District, taken January 27, 2000)
- Attachment E-2 Water Analysis of the secondary fluid to be injected (Unichem Water Analysis of produced water commingled with Johnson Water, taken August 25, 1999 at the Monument Butte Injection Facility)
- Attachment E-3 Analysis of formation water taken April 26, 2000 from the Monument Butte Federal 1-23-8-16
- Attachment E-4 Analysis of the compatibility of the injected and formation water, done April 26, 2000.

435 722 5727

ATTACHMENT E-1

## **UNICHEM**

A Division of BJ Services

P.O. Box 217 Roosevelt, Utah 84066

Office (435) 722-5066 Fax (435) 722-5727

## WATER ANALYSIS REPORT

Company INLAND PRODUCTION	ON Address		Date 1-27-00
Source	Date Sampled _	1-26-00	_ Analysis No
	Analysis	mg/l(ppm)	<b>*M</b> eg/}
1. PH	4		
2. H <sub>2</sub> S (Qualitative)	5		
3, Specific Gravity10	01		
4. Distolved Solids	<u> </u>	600	
5, Alkalinity (CaCO <sub>3</sub> )	co, _	0	÷ 30 0 co.
6. Bicarbonate (HCO <sub>3</sub> )	нсо,	240	_ ÷61HCO,
7. Hydroxyl (OH)	ОН _	0	÷17OH
B. Chlorides (CI)	CI	71	÷ 35.5 <u>2</u> CI
9. Sulfates (SO <sub>4</sub> )	so, _	130	+ 48 <u>3</u> SO
10. Calcium (Ca)	Ca	72	_ ÷ 20 Ca
11. Magnesium (Mg)	MG _	41	_ ÷ 12.23Mg
12. Total Hardness (CaCO <sub>3</sub> )		350	
13. Total Iron (Fe)	· · · · · · · · · · · · · · · · · · ·	0.6	
14. Manganese			_
15. Phosphate Residuals			

## PROBABLE MINERAL COMPOSITION

	Compound	Equiv. Wt.	X WEEK	= MAN
4 C. 4 HCO, 4	Ca(HCO <sub>3</sub> ) <sub>3</sub>	81.04	<u> 4</u>	324
4 Ca HCOs	CaSO <sub>4</sub>	68.07		
3 Mg so, 3	CaCl	55,50		
3   Mg	Mg(HCO <sub>3</sub> ) <sub>2</sub>	73.17		
2 Na 2	MgSO,	60.19	_3	181
	MgCla	47.62		_
Saturation Values Distilled Water 20°C	NaHCO <sub>3</sub>	84.00		_
U.O.O.	Na <sub>2</sub> SO <sub>4</sub>	71.03		
CBSO4 2H2O 2,090 Mg/1	NaCl	58.48	_2	_ 117
WGCO1				
REMARKS	·		· · ·	
Recieved Time Jan 27 5:28PM				

<sup>\*</sup>Milli equivalents per liter

435 722 5727.

**UNICHEM** 

A Division of BJ Services

P.O. Box 217 Roosevell, Utah 84088 ATTACHMENT E-2

Office (435) 722-5066 Fax (435) 722-5727

WATER ANALYSIS REPORT	WA	TEA	ANAL	YSIS	REP	ORT
-----------------------	----	-----	------	------	-----	-----

Company INLAND PRODUCTION	Address		8-25-99 Date
Source MBIF	Date Sampled	8-25-99	Analysis No.
An	alysis 8.0	mg/l(ppm)	*Meg/I
1. PH	0		
2. H <sub>2</sub> S (Qualitative)	1.001		
3. Spacific Gravity		688	
4. Dissolved Solids		0	
5. Alkalinity (CaCO <sub>3</sub> )	CO <sub>3</sub> _	430	+61 - 7 HCO,
6. Bicarbonate (HCO <sub>3</sub> )	HCO, _	430	+ 17 <u>0</u> OH
7. Hydroxyl (OH)	OH _	71	
B. Chlorides (Ci)	CI	7	
9. Sulfates (SO <sub>4</sub> )	50	40	
10. Calcium (Ca)	Ca	40	
11. Magnesium (Mg)	MG _	12	+ 12.2 <u>l</u> Mg
12. Total Hardness (CaCO <sub>3</sub> )	· · · · · · · · · · · · · · · ·	150	
13. Total Iron (Fe)	<u>-</u>	13	
14. Manganese	<u> </u>	0	
15. Phosphate Residuals	_		

## \*Milli aquivalents per liter

## PROBABLE MINERAL COMPOSITION

		Compound	Equiv. WL	X Wedy	= UITA
7	7	Ca(HCO1)a	81.04		162
Ca HCO	<b>'</b>	CaSO.	68.07		
1 Mg	0	CaClı	55.50		73
		Mg(HCO <sub>1</sub> ) <sub>2</sub>	73.17		
6 Na.	2	MgSO,	60.18		
Seturation Values Distilled Wa	atar 20°C	MgCla	47.62	4	336
Saturation Values Distilled Wa CaCO <sub>3</sub> 13 Mg/l		NaHCO1	84.DO		
CaSO. 2H2O 2,090 Mg/		Ne <sub>2</sub> SO <sub>4</sub>	71.03	2	117
MgCO <sub>3</sub> 103 Mg/l		NaCl	58.46		
REMARKS					

435 722 5727

## **UNICHEM**

A Division of BJ Services

P.O. Box 217 Roosevelt, Utah 84066 ATTACHMENT E-3

Office (435) 722-5066 Fax (435) 722-5727

## WATER ANALYSIS REPORT

Companyinland Production	Company_	Address			Date _	4/26/00
Source Monument Butte I	cd_1-23	Date Sampled	4/26/00	Analysis	No	
	Ana	lysis	mg/l(ppm)		*M	eg/l
1. PH	9.2					
2. H <sub>2</sub> S (Qualitative)	1.5	· · · · · · · · · · · · · · · · · · ·				
3. Specific Gravity	1.008					
4. Disselved Solids			8.481			
5. Alkalinity (CaCO <sub>3</sub> )		CO,	0	÷ 30	0	00
6. Bicarponate (HCO <sub>3</sub> )		HCO,	1,037	÷ 60 ÷ 61	17	CO <sub>3</sub>
7. Hydroxyl (OH)		он	0	÷ 17	0	HCO3
8. Chlorides (CI)		CI	4,300	÷ 35.5	120	OH
9. Sulfates (SO <sub>4</sub> )		so,	0	÷ 48	0	
10. Calcium (Ca)		Ca	16		1	\$0, Ca
11. Magnesium (Mg)		MG	0	÷ 12.2	0	
12. Total Hardness (CaCO <sub>3</sub> )			40			Mg
13. Total Iron (Fe)			10			
14. Manganese		<u></u>		_		
15. Phosphate Residuals				-		
1						

## \*Milli equivalents per liter

## PROBABLE MINERAL COMPOSITION

	· .	Сопропи	Equiy.W1.	X Mea/I	= Ma/1
1 ca	HCO <sub>3</sub> 17	Ca(HCO <sub>1</sub> ),	81.04	_1	81
		CaSO.	68.07		
0 Mg	so, 0	CaClz	55,50		· · · · · · · · · · · · · · · · · · ·
Na Na	CI	Mg(HCO <sub>3</sub> ) <sub>2</sub>	73.17		· · · · · · · · · · · · · · · · · · ·
136	120	MgSO,	60.19	<del></del>	
Saturation Values	Distilled Water 20°C	MgCl <sub>2</sub>	47.62	h	
CaCO <sub>3</sub>	13 Mg/l	NaHCO <sub>3</sub>	84.00	<u>—16</u>	1,344
Ca\$O₄,2H₂O	2,090 Mg/l	Ne <sub>2</sub> SO <sub>4</sub>	71.03		
MgCO <sub>3</sub>	103 Mg/l	Necl	58.46	120	7,015
REMARKS					
					·

Recieved Time\_Apr.27.\_11:59AM\_\_\_\_\_

435 722 5727\_\_\_\_\_

ATTACHMENT E-4

P. 003

#### AQUAMIX SCALING PREDICTIONS

COMPANY:

INLAND PRODUCTION CO

4-26-2000

LOCATION: SYSTEM:

WATER DESCRIPTION:	JOHNSON WATER	MON BUTTE FED 1-23
P-ALK AS PPM CaCO3	0	0
M-ALK AS PPM CaCO3	393	1701
SULFATE AS PPM SO4	130	0
CHLORIDE AS PPM Cl	71	4300
HARDNESS AS PPM CaCO3	0	0
CALCIUM AS PPM CaCO3	180	4 O
MAGNESIUM AS PPM CaCO3	169	0
SODIUM AS PPM Na	46	3128
BARIUM AS PPM Ba	0	0
STRONTIUM AS PPM Sr	0	0
CONDUCTIVITY	0	0
TOTAL DISSOLVED SOLIDS	600	8481
TEMP (DEG-F)	100	100
SYSTEM pH	7,4	9.2
I		

WATER COMPATIBILITY CALCULATIONS JOHNSON WATER AND MON BUTTE FED 1-2 CONDITIONS: pH=8.3. TEMPERATURE ESTIMATED FROM COMPONENT WATERS.

#### WATER ONE IS JOHNSON WATER

IN MILLEY	STIFF DAVIS	lbs/1000 BBL EXCESS CaCO3	mg/l Bas04 IN EXCESS OF SATURATION	mg/l SrO4 IN EXCESS OF SATURATION	mg/l Gypaum IN EXCESS OF SATURATION
100 90 80 70 60 50	1.23 1.28 1.29 1.29 1.27 1.24 1.19	56 53 49 45 40 36 31	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
30 20 10 0	1.12 1.04 .94 .80	26 21 16 11	0	0	0

#### ATTACHMENT G

#### **GEOLOGICAL DATA ON INJECTION AND CONFINING ZONES**

For Class II wells, submit appropriate geological data on the injection zone and confining zones, including lithologic description, geological name, thickness, and depth and fracture pressure.

The proposed injection well produced from and will inject into the Green River formation. Water is sourced from the Johnson Water District and injected or is commingled with produced water at the Monument Butte Injection Facility and processed for individual well injection.

The injection zones are in the Green River formation, bounded by the Garden Gulch marker and the Basal Carbonate Marker. The Green River is composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shales. At the Monument Butte Federal #1-23 location, the proposed injection zone is from 5266' – 5621'. The porous and permeable lenticular sandstones vary in thickness from 0' – 25' and are confined to the Monument Butte area by low porosity calcareous shales and carbonates.

The confining strata directly above and below the injection zones are the top of the Garden Gulch formation and the Basal Carbonate, in the Monument Butte Federal #1-23 well. The strata confining the injection zone are composed of tight, moderately calcareous, sandy lacustrine shales. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

The fracture pressure of the Monument Butte Federal #1-23 will be determined upon testing. The minimum fracture gradient calculates at 0.832 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be conducted upon injection and periodically thereafter to determine the actual fracture pressure. As the fracture pressure increases, we may elect to increase the injection pressure, but will not exceed the maximum of 1894 psig.

#### Communication Prevention:

The injection system will be equipped with high and low pressure shut-down devices, which will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

Attachment G-1 Formation Tops

Attachment G-2 Proposed Maximum Injection Pressure

Attachment G-3 Fracture Report Dated 2/22/00

Attachment G-4 Fracture Report Dated 2/24/00

#### **ATTACHMENT G-1**

#### FORMATION TOPS

#### Monument Butte Federal #1-23

FORMATION	DEPTH (ft)
Green River	2140'
Garden Gulch	4218'
Point Three Marker	4845'
X Marker	5087'
Y-Marker	5120'
Douglas Creek	5240'
Bicarbonate Marker	5522'
B <sub>*</sub> Limestone	5666'
Castle Peak Limestone	NDE
Total Depth	5966'

#### Attachment "G"- 2

## Monument Butte Federal #1-23-8-16 Proposed Maximum Injection Pressure

` ,		Avg. Depth	Calculated Frac epth ISIP Gradient				
Top	<b>Bottom</b>	(feet)	(psi)	(psi/ft)	Pmax		
4771	4950	4861	1940	0.832	1894	<b>←</b>	
5058	5281	5170	2150	0.849	2093		
				Minimum	1894		

Calculation of Maximum Surface Injection Pressure
Pmax = (Frac Grad -(0.433\*1.005)) x Depth of Top Perf
where pressure gradient for the fresh water is .433 psi/ft and
specific gravity of the injected water is 1.005.

Frac Gradient = (ISIP +(0.433\*Avg. Depth))/Avg. Depth





#### COMPLETION REPORT

MB FED 1-23-8-16

NE/NE Section 23 - T8S - R16E Duchesne Co., UT API # 43-013-2093

Spud Dat

2/3/00

Completion or Workover Rig

KES #57

Report Date 2/20/00 Day 1

Completing - TOH w/tba

Date Work Performed 2/19/00

MIRU KES #57. Pressure test csg & head to 2,000 psi for 30 min. Install 2-3/8" ram blocks in BOP's. NU frac head, BOP's & tbg equipment. PU & MU 3-3/4" bit & 4-1/2" csg scraper. Tally & drift 2-3/8" tbg off the rack. Total of 191 its tbg, tag PBTD @ 5879.16'. TOH w/2 its tbg. EOT 5838'. SWIFN.

Daily Cost \$2,065 Cumulative Cost \$2,065

Report Date 2/22/00 Day 2

Completing - Frac & Perf

Date Work Performed 2/21/00

RU swab equipment. Swab FL down to 4900'. Rec 68 BTF. TOH w/tbg. LD bit & scraper. RU Schlumberger & perf C/B Sands @ 5446-49', 5469-74' & 5614-21' w/4 JSPF. SIFN.

Daily Cost \$24,705 Cumulative Cost \$26,770

Report Date 2/23/00 Day 3

Completing - Swabbing

Date Work Performed 2/22/00

Bleed gas off csg. NU BJ Services ram head flange to BOP. RU BJ to frac C/B Sands. Hole filled w/68 bbls pad fluid. Perfs broke dwn @ 2880 psi. Treated @ avg press of 3200 psi w/avg rate of 28 BPM. With sand on perfs, pressure increased rapidly. No rate increase was available. Sand was cut @ blender @ 6 ppg. Flushed 1470 gals before max press was achieved & screened out w/5# sand on perfs. Pumped 45,516# 20/40 sand in 361 bbls Viking I-25 fluid & 16 bbls fluid ahead of frac. Est 36,451# sand in perfs, 9,065# sand left in csg. RD BJ. Discovered malfunction w/BOP. Flow back est'd 5 BTF. TIH w/NC & tbg. Flow & displace add'l 18 BTF on TIH. Stage out sand laden fluid @ 3000'. Tag solid sand @ 5441'. C/O sand to PBTD @ 5883'. Circ hole clean. No fluid loss. TOH w/tbg & NC. RU Schlumberger & set 4-1/2" "HE" RBP @ 5400'. RD WLT. ND BOP (send for repairs). SIFN w/est 354 BWTR. STIM DETAIL:

4000 gals of pad

1000 gals w/1-5 ppg of 20/40 sand

8702 gals w/5-6 ppg of 20/40 sand (of 10,000 gal stage)

Flush w/1470 gals of slickwater (2074 gals short of top perf)

\*\*\*Screened out w/5# sand on perfs; est 36,451# sand in formation & 9,065# sand left in csg

Max TP 4200, Avg TP 3200; Max Rate 29 BPM, Avg Rate 28 BPM

Total fluid pumped 361 bbls, total prop pmpd 45,516#

Daily Cost \$26,745 Cumulative Cost \$53,515

Report Date 2/24/00 Day 4

Completing - Frac

Date Work Performed 2/23/00

NU Cameron 6" 5M BOP. Fill csg w/10 BW. Press test BOP seals to 3500 psi. TIH w/NC & tbg to 5362'. Displaced 10 BW on TIH. Swab FL dwn to 4750'. Rec 66 BTF. TOH w/tbg & NC. RU Schlumberger & perf "D" sands 5266-74', 5277-82', 5286-88' & 5339-5364' w/2 JSPF @ 180 deg phasing. RD WLT. TIH w/NC & tbg 5362'. RU swab equip. IFL @ 2900'. Made 4 swab runs, rec'd 19 BTF (est 11 BO, 8 BW). FOC @ 60% w/strong gas. FFL @ 2900'. TOH w/tbg & NC. SIFN w/est 280 BWTR.



#### COMPLETION REPORT

Daily Cost \$5,354 Cumulative Cost \$58,869

Report Date 2/25/00 Day 5

Completing - Trip prod tbg

Date Work Performed 2/24/00

SICP 650 psi (leave on well). RtJ BJ Services & frac "D" sands w/138,783# 20/40 sd in 696 bbls Viking I-25 fluid. Hole filled w/22 bbls pad fluid (est 1500' entry overnight). Perfs broke back @ 2750 psi @ 27 BPM. Had some visible breaks. Treat @ avg press of 2300 psi w/avg rate of 34 BPM. ISIP 2600 psi, 5 min 2152 psi. RD BJ. Flowback "D" sand frac on 12/64" choke for 3 hrs & died. Rec 98 BTF (est 14% of "D" sd frac load) w/tr oil & gas @ end. Well flwg small amt. TIH w/RH & tbg. Circ out oil & gas @ 3000'. Flow & displace add'l 24 bbls on TIH. Tag sd @ 5347'. Rev circ out sd to RBP @ 5400'. Lost est 55 BW during circ. Release plug. TOH w/tbg. LD plug. TIH w/NC & tbg. Tag sd @ 5746'. Pull EOT to 5580'. SIFN w/est 909 BWTR.

STIM DETAIL:
4000 gals of pad
1000 ga;s w/1-5 PPG 20/40 sand
12,000 gals w/5-7ppg of 20/40 sand
8882 gals w/7-9 ppg of 20/40 sand
Flush w/3360 gals of slickwater
Max TP 3374, Avg TP 2300, ISIP 2600, 5 min 2152
Max Rate 35 BPM, Avg Rate 34 BPM
Total fluid pmpd: 696 bbls; total prop pmpd: 138,783#

Daily Cost \$37,533 Cumulative Cost \$96,402

Report Date 2/26/00 Day 6

Completing - Flow Test

Date Work Performed 2/25/00

TIH w/2 jts tbg. EOT @ 5644'. RU swab equip. IFL @ surface. Made 2 swab runs, rec'd 38 BW. Well began flowing. Regulate flow to 1/2 to 1 BPM fluid w/strong gas. Heavy sand in early samples but cleaned up after flwg approx 100 BF. Rec est 277 BTF today (184 BW & 93 BO). RU line to production tank. Begin flwg well to tanks @ 2:30PM w/18 BPH last 2 hrs & 80% oil cut. Est 725 BWTR.

Daily Cost \$2,018 Cumulative Cost \$98,420

Report Date 2/27/00 Day 7

Completing - Flow Test

Date Work Performed 2/26/00

SICP 1000 psi. Well flwd 311 BO & no water last 14 hrs (22 BPH avg) @ 225 FTP. Switch production through treater & leave well flwg through weekend. Est 725 BWTR.

Daily Cost \$330 Cumulative Cost \$98,750

Report Date 2/29/00 Day 8

Completing - Flow Test

Date Work Performed 2/28/00

SICP 1050 psi. Well flwd 429 BO & 41 BW last 20 hrs (23.5 BPH avg) @ 450 FTP. Est 455 mcfd gas sales/day through 12/64" choke. LD out of the derrick 8 jts tbg. Replace rig slips with rentals. Lock pipe rams shut. RD service rig & move off locn.

Daily Cost \$1,319 Cumulative Cost 100,069

#### ATTACHMENT H

#### **OPERATING DATA**

Submit the following proposed operating data for each well (including all those to be covered by area permits): (1) average and maximum daily rate and volume of the fluids to be injected; (2) average and maximum injection pressure; (3) nature of annulus fluid; and (4) for Class II wells, source and analysis of the physical and chemical characteristics of the injection fluid.

- 1. Estimated average daily rate is 300 BPD, and the estimated maximum daily rate is 500 BPD.
- 2. The average and maximum surface pressure will be determined upon testing.
- 3. Fresh water treated with scale inhibitor, oxygen scavenger, biocide (behind packer fluid).
- 4. The injected fluid is primarily culinary water from the Johnson Water District; in secondary cases the injected fluid will be culinary water from the Johnson Water District commingled with produced water. (See Attachments E-1through E-4 for analysis).

#### ATTACHMENT M

#### **CONSTRUCTION DETAILS**

Submit schematic or other appropriate drawings of the surface and subsurface construction details of the well.

Attachment M-1 Wellbore Diagram of Monument Butte Federal #1-23

Attachment M-2 Site Facility Diagram of Monument Butte Federal #1-23

#### Monument Butte Federal #1-23

#### ATTACHMENT M-1

Spud Date: 2/03/00 Put on Production: 2/25/00 GL: 5341' KB: 5351'

#### SURFACE CASING

CSG SIZE: 8-5/8" GRADE: J-55 WEIGHT: 24# LENGTH: 7 JTS (305.6')

DEPTH LANDED: 317.45° HOLE SIZE: 12-1/4"

CEMENT DATA: 145 sxs Class "G" cmt w/ 2% CaCl2 and

1/4#/sk Cello-Flake (5 bbls to surface)

#### PRODUCTION CASING

CSG SIZE: 4-1/2" GRADE: J-55 WEIGHT: 11.6# LENGTH: 137 jts (5910') HOLE SIZE: 7-7/8"

CEMENT DATA: 350 sxs Prem Lite II w/ 10% Gel & 3% KCl

550 sxs 50-50 POZ w/ 2% Gel & 3% KCl

CEMENT TOP AT: 396' per CBL

SET AT: 5921.76' KB

#### TUBING

SIZE/GRADE/WT: 2-3/8", "LS", 4.7 ppf

NO. OF JOINTS: 175 jts PACKER: 5153' KB SEATING NIPPLE: 2-3/8"

TOTAL STRING LENGTH: EOT @ 5405' KB

SN LANDED AT: 5311' KB

Proposed Injection Well Wellbore Diagram

Initial Production: 156 STBOPD, 100 MCFD, 0 STBWPD

#### FRAC JOB

2-22-00 5446'-5621'

Frac C/B sands: 45,516# 20/40 sand in 325 bbl Viking I-25 fluid. Perfs broke down at 2880 psi. Treated at avg. pressure of 3200 psi w/ avg, rate of 28 BPM. Screened out.

2-24-00 5266'-5364'

Frac D sands: 138,783# 20/40 sand in 696 bbl Viking I-25 fluid. Perfs broke back at 2750 psi. Treated at avg. pressure of 2300 psi w/ avg. rate of 34 bpm. ISIP-2600 psi, 5 min.-2152 psi.

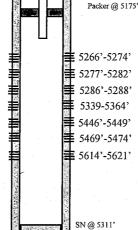


#### Inland Resources Inc.

#### Monument Butte Federal #1-23

660' FNL 660' FEL SWNE Section 23-T8S-R16E Duchesne Co, Utah

API #43-013-32093; Lease #UTU-76560



EOT @ 5405'

PBTD @ 5679

TD @ 5966'

PERFORATION RECORD 16 holes 2-24-00 5266'-5274' 2 JSPF 2-24-00 5277'-5282' 2 JSPF 10 holes 5286'-5288' 2-24-00 2 JSPF 4 holes 5339'-5364' 2-24-00 2 JSPF 50 holes 2-22-00 5446'-5449' 4 JSPF 12 holes 2-22-00 5469'-5474' 4 JSPF 20 holes 2-22-00 5614'-5621' 4 JSPF 28 holes

## **Inland Production Company Site Facility Diagram**

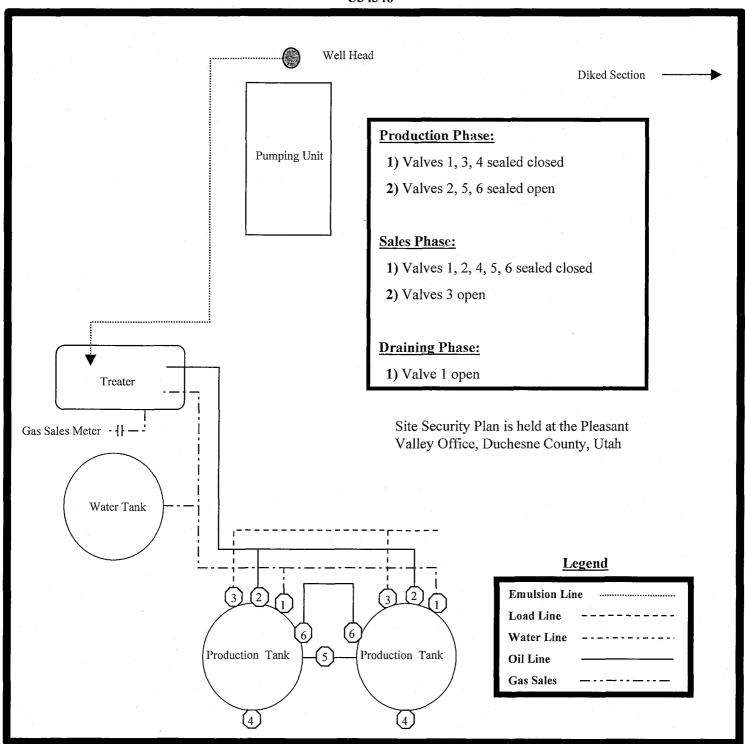
ATTACHMENT M-2

Monument Butte 1-23-8-16

**NENE Sec. 23, T8S, 16E** 

**Duchesne County, Utah** 

U34346



#### ATTACHMENT Q

#### WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1.	Plug #1	Set 505' plug from 5166'-5671' with 68 sxs Class "G" cement.
2.	Plug #2	Set 200' plug from 2000'-2200' with 25 sxs Class "G" cement.
3.	Plug #3	Set 100' plug from 270'-370' with 15 sxs Class "G" cement. (50' on either side of casing shoe)
4.	Plug #4	Set 50' plug from surface with 10 sxs Class "G" cement
5.	Plug #5	Pump 50 sxs Class "G" cement down the 8-5/8" x 4-1/2" annulus to cement to surface.

#### Monument Butte Federal #1-23

Spud Date: 2/03/00 Put on Production: 2/25/00 GL: 5341' KB: 5351'

Proposed P & A Wellbore Diagram Initial Production: 156 STBOPD, 100 MCFD, 0 STBWPD

#### SURFACE CASING

CSG SIZE: 8-5/8" GRADE: J-55 WEIGHT: 24# LENGTH: 7 JTS (305.6') DEPTH LANDED: 317.45'

HOLE SIZE: 12-1/4" CEMENT DATA:

145 sxs Class "G"cmt w/ 2% CaCl2 & 1/4#/sk Cello-Flake (5 bbls to surface)

10 sxs Class "G" cmt, 50' to surface

50 sxs Class "G" cmt down 8-5/8" x 4-1/2" anulus

15 sxs Class "G" cmt, 270'-370'

#### PRODUCTION CASING

CSG SIZE: 4-1/2"
GRADE: J-55
WEIGHT: 11.6 ppf
LENGTH: 137 jts (5910')
HOLE SIZE: 7-7/8"

CEMENT DATA: 350 sxs Prem Lite II w/ 10% Gel & 3% KCl 550 sxs 50-50 POZ w/ 2% Gel & 3% KCl

CEMENT TOP AT: SET AT: 5921.76' KB 25 sxs Class "G" cmt, 2000'-2200'

#### ATTACHMENT Q-2

5266'-5274'

5277'-5282'

5286'-5288'

5339-5364'

5469'-5474'

5614'-5621'

SN @ 5311'

EOT @ 5405'

PBTD @ 5679' TD @ 5966'

Sand Top @ 'KB

68 sxs Class "G" cmt, 5671'-5166'

#### PERFORATION RECORD

2-23-00 5266'-5274' 2 JSPF 16 holes 2-23-00 5277'-5282' 2 JSPF 10 holes 2-23-00 5286'-5288' 2 JSPF 4 holes 2-23-00 5339'-5364' 50 holes 2 JSPF 2-21-00 5446'-5449' 4 JSPF 12 holes 2-21-00 5469'-5474' 4 JSPF 20 holes 2-21-00 5614'-5621' 4 JSPF 28 holes



#### Inland Resources Inc.

#### Monument Butte Federal #1-23

660' FNL 660' FEL SWNE Section 23-T8S-R16E

Duchesne Co, Utah

API #43-013-32093; Lease #UTU-76560

#### BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH

---ooOoo---

IN THE MATTER OF THE

NOTICE OF AGENCY

APPLICATION OF FOR

**ACTION** 

ADMINISTRATIVE APPROVAL OF

CAUSE NO. UIC-261

THE MONUMENT BUTTE FEDERAL 1-23-8-16 WELL LOCATED IN

;

SECTION 23, TOWNSHIP 8 SOUTH,

: ---00O00---

RANGE 16 EAST, SALT LAKE, DUCHESNE COUNTY, UTAH, AS A CLASS II INJECTION WELL

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of INLAND PRODUCTION COMPANY for administrative approval of the MONUMENT BUTTE FEDERAL 1-23-8-16 well, located in Section 23, Township 8 SOUTH, Range 16 EAST, DUCHESNE County, Utah, for a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selective zones in the GREEN RIVER Formation will be used for water injection. The maximum requested injection pressure and rate will be determined on each individual well based on fracture gradient information submitted by INLAND PRODUCTION COMPANY.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedure rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 16th day of AUGUST, 2000.

STATE OF UTAH

DIVISION OF OIL, GAS & MINING

John R. Baza

Associate Director, Oil & Gas

#### INLAND PRODUCTION COMPANY MONUMENT BUTTE FEDERAL 1-23-8-16 Cause No. UIC-261

Publication Notices were sent to the following:

INLAND PRODUCTION COMPANY

Rte 3, Box 3630 Myton, UT 84052

fax #237-2776

Salt Lake Tribune
143 So Main Street
Salt Lake City, UT 84111

fax #435-722-4140
Uintah Basin Standard
268 South 200 East
Roosevelt, UT 84066-3109

Vernal District Office
Bureau of Land Management
170 South 500 East
Vernal, UT 84078

DUCHESNE County Assessor PO Drawer 899 Duchesne, UT 84021-0899

Ferron Secakuku Ute Tribe PO Box 70 Ft. Duchesne, UT 84026

SITLA 675 East 500 South, Suite 500 Salt Lake City, UT 84102-2818

Dan Jackson
US EPA Region VIII, Suite 5000
999 18th Street
Denver, CO 80202-2466

Earlene Russell Secretary

August 16, 2000

· -	TRANSACTION REPORT		AUG-16-2000	WED 11:24 AM	
FOR: OIL, GAS & MINING	801 359	9 3940			
DATE START RECEIVER	TX TIME	PAGES TYPE	NOTE	M# D	
AUG-16 11:23 AM 2372776	41"	2 SEND	OK	520	
		TOTAL :	41S PAGES:	2	



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210 PO Box 145801 Salt Lake City, Utah 84114-5801 801-538-5340 801-359-3940 (Fax) 801-538-7223 (TDD)

August 16, 2000

SENT VIA FAX fax #237-2776

Salt Lake Tribune 143 So Main Street Salt Lake City, UT 84111

RE: Notice of Agency Action - Cause No. UIC-261

#### Gentlemen:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, Suite 1210, PO Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,



## State of Utah DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt Governor Kathleen Clarke Executive Director Lowell P. Braxton Division Director 1594 West North Temple, Suite 1210 PO Box 145801 Salt Lake City, Utah 84114-5801 801-538-5340 801-359-3940 (Fax) 801-538-7223 (TDD)

August 16, 2000

SENT VIA FAX fax #237-2776

Salt Lake Tribune 143 So Main Street Salt Lake City, UT 84111

RE: Notice of Agency Action - Cause No. UIC-261

#### Gentlemen:

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Sincerely,

Earlene Russell

Secretary

encl.

	TRANSACTION F	REPORT	AUG-16-20	000 WED 11:20 AM
FOR: OIL, GAS & MINING	801 35	59 3940		
DATE START RECEIVER	TX TIME	PAGES TYPE	NOTE	M♯ DP
AUG-16 11:19 AM 14357224140	50"	2 SEND	OK	519
		TOTAL :	50S PAGES	: 2



Michael O. Leavitt Governor

Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

801-338-3340
801-359-3940 (Fax)
801-538-7223 (TDD)

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL GAS AND MINING

1594 West North Temple, Suite 1210 PO Box 145801 Salt Lake City, Litan 84114-5801 801-538-5340 801-359-3940 (Fax)

August 16, 2000

SENT VIA E-MAIL AND FAX fax #435-722-4140

Uintah Basin Standard 268 South 200 East Roosevelt, UT 84066-3109

RE: Notice of Agency Action - Cause No. UIC-261

#### Gentlemen:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, Suite 1210, PO Box 145801, Salt Lake City, Utah 84114-5801.

At.... 1

## BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH

---ooOoo---

IN THE MATTER OF THE	:	NOTICE OF AGENCY ACTION
APPLICATION OF TOUAND PRODUCTION (operator)	Company	CAUSE NO. UIC- 26
FOR ADMINISTRATIVE APPROVAL	:	Chool no. 010
OF THE	:	
MONUMENT BUTTE FEDERAL 1-23-8	-16:	
WELL\$		
TOWNSHIP 85, RANGE 16 E, S.L.M. COUNTY, UTAH, AS CLASS II INJECTION WELL!	SI	
	_	
	00000	
THE STATE OF UTAH TO ALL PERSONS	S INTERESTED	) IN THE ABOVE ENTITLED MATTER.
informal adjudicative proceeding to consider administrative approval of the <u>(same as a formal same as above)</u> , Range <u>(same as above)</u> , Range <u>(same as above)</u> ,	er the application above) well <b>s</b> , loas above), S.L.l	
The GREEN RIVER  The maximum injection pressure and rate gradient information submitted by Inland P	will be determin	be selectively perforated for water injection. ned on each individual well based on fracture pany.
a written protest or notice of intervention w notice. If such a protest or notice of intervention	vith the Division vention is receive	otherwise intervene in the proceeding, must file within fifteen days following publication of this ed, a hearing will be scheduled before the Board ould be prepared to demonstrate at the hearing
Dated this day of	199_	

From:

"NAC Legals" <naclegal@nacorp.com>

To:

"Earlene Russell" <nrogm.erussell@state.ut.us>

Date:

8/16/00 2:47PM

Subject:

Re: UIC 261

I got your email. Thank you.

Ad is scheduled for Sunday, August 20.

Lynn

----Original Message----

From: Earlene Russell <a href="mailto:rnogm.erussell@state.ut.us">rno: naclegal@nacorp.com</a> <a href="mailto:rnogm.erussell@state.ut.us">rnogm.erussell@state.ut.us</a>

Date: Wednesday, August 16, 2000 1:35 PM

Subject: UIC 261

Try this one. This is the way I ususally send them. You should have received the fax now.

Let me know how this works and if you got the fax. Thanks.

143 SOUTH MAIN ST. P.O.BOX 45838 SALT LAKE CITY, UTAH 84145 FED.TAX I.D.# 87-0217663

## Newspaper Agency Corporation The Stall Cake Tribune (NA) DESERT NEWS

CUSTOMER'S COPY

#### PROOF OF PUBLICATION

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING 1594 W NORTH TEMP #1210	D5385340L-07	08/20/00
P.O. BOX 145801 SALT LAKE CITY, UT 84114		
ACCOUNT NAME		

ACCO	UNI NAME		n.	CEVEL	
DIV OF OIL-	GAS & MINING INVOICE NUMBER		A	W6 2.5 2000	
801-538-5340	5340 TL8200T2VA1			DIVISION OF OIL, GAS AND MINING	
SCHE	DULE		,,,	Contrate ContrateC	
START 08/20/00	END 08/20/00				
	REF. NO.				
CA	1000				
<u></u>	PTION	BEFC	ORE THE DIVISION OF	Oll GAS AND MINIMO	
BEFORE THE DIV	ISION OF OIL, GA		DEPARTMENT OF NATI STATE OF	OIL, GAS AND MINING URAL RESOURCES UTAH	
-	IZE_	!	0000		
		IN THE MATTER O APPLICATION OF ADMINISTRATIVE THE MONUMENT E 1-23-8-16 WELL L SECTION 23, TOW RANGE 16 EAST.	FOR FOR APPROVAL OF	NOTICE OF AGENCY ACTION	
TIMES 55 LINES	2.00 COLUMN	1-23-8-16 WELL L SECTION 23, TOW	SUTTE FEDERAL OCATED IN VNSHIP & SOUTH	CAUSE NO. UIC-261	
LIMELO	RATE	RANGE 16 EAST, DUCHESNE COUN CLASS II INJECTIO	SALT LAKE, ITY, UTAH, AS A	;	
1	1.64	CENSS II INJECTIO	000og	:	
MISC, CHARGES	AD CHARGES	THE STATE OF UTAI	H TO ALL PERSONS IN	TERESTED IN THE ABOVE ENTITLED	
00		Notice is heret	by given that the D	ivision of Oil Gas and Mini-	
.00	180.40	ceeding to con	is commencing an isider the applical dministrative appro-	informal adjudicative pro- tion of INLAND PRODUCTION	
	TOTAL COST	Range 16 EAST, I well. The proceed	) well, located in Se DUCHESNE County, I	ection 23, Township 8 SOUTH, Ulah, for a Class II injection	
	180.40	Admin. R649-10, A	dministrative Proce	Ivision of OII, Gas and Mining of informal adjudicative pro- tion of INLAND PRODUCTION was a sure control of INLAND PRODUCTION was of the MONUMENT BUTTE ection 23, Township 8 SOUTH, for a Class II injection led in accordance with Utah dures.	
		water injection. ate will be deterr	In the GREEN RIVER The maximum reque mined on each indiv	R Formation will be used for ested injection pressure and vidual well based on fracture INLAND PRODUCTION COM-	
AFFIDAV	IT OF PUBLICATION	ANY.	ion submitted by	INLAND PRODUCTION COM-	
AS NEWSPAPER AGENCY CORPORATION ADVERTISEMENT OF BEFORE THE DIV OF OIL-GAS & MINING CORPORATION, AGENT FOR THE SALT	J LEGAL BOOKKEEDED I GEDEN	Any person desi ervene in the pro ntervention with the	ring to object to the ceeding, must file o	application or otherwise in-	
ADVERTISEMENT OF BEFORE THE	DIVISION OF OIL, GA	on of this notice, eived, a hearing	If such a protest or will be schedule	notice of intervention is re-	
DIV OF OIL-GAS & MINING	WAS PUBLISHED BY	nd/or interveners earing how this m	aministrative proc should be prepar after affects their in	edure rules. Protestants led to demonstrate at the	
DDTNMDN TX Miss					
PRINTED IN THE ENGLISH LANGUAGE IN SALT LAKE CITY SALT LAKE CO	WITH GENERAL CIRCULATION OF	ATE OF UTAH VISION OF OIL, GA	IS & MINING		
IN SALT LAKE CITY, SALT LAKE CO	ONII IN THE STATE OF UTAH./s	/ Gil Hunt for			
		sociate Director, 0012VA	Oil & Gas	1	
SIGNATURE					
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DATE08/20/00		1、13万万	o viga i i i i i i i i i i i i i i i i i i	1 St. Perma é	
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THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"
PLEASE PAY FROM BILLING STATEMENT.

#### RECEIVED

#### AFFIDAVIT OF PUBLICATION

AUG = 6 2000

DIVISION OF OIL, GAS AND MINING

County of Duchesne, STATE OF UTAH

BONNIE PARRISH

\*\*MOTARY PUBLIC \*\*STATE of UTAH\*\*

471 N. HILLCREST DR. (415-5)

\*\*ROOSEVELT, UT 84066

COMM. EXP 3-31-2004

#### NOTICE OF AGENCY ACTION

CAUSE NO. UIC-261
IN THE MATTER OF
THE APPLICATION OF
FOR ADMINISTRATIVE
APPROVAL OF THE
MONUMENT BUTTE
FEDERAL 1-23-8-16
WELLLOCATEDINSECTION 23, TOWNSHIP 8
SOUTH, RANGE 16
EAST, SALT LAKE,
DUCHESNE COUNTY,
UTAH, AS A CLASS II
INJECTION WELL

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of INLAND PRODUCTION COMPANY for administrative approval of the MONUMENT BUTTE FEDERAL 1-23-8-16 well, located in Section 23, Township 8 SOUTH, Range 16 EAST, DUCHESNE County, Utah, for a Class II injection well. The proceeding will be conducted in accordance with Utah Admin.

R649-10, Administrative Procedures.

Selective zones in the GREEN RIVER Formation will be used for water injection. The maximum requested injection pressure and rate will be determined on each individual well based on fracture gradient information submitted by INLAND PRODUCTION COMPANY.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedure rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 16th day of AUGUST, 2000.

STATE OF UTAH DIVISION OF OIL, GAS & MINING

Gil Hunt

for John R. Baza Associate Director, Oil

& Gas

Published in the Uintah Basin Standard August 22, 2000.

Michael O. Leavitt Kathleen Clarke Executive Director Lowell P. Braxton Division Director 801-538-7223 (TDD)

1594 West North Temple, Suite 1210 PO Box 145801 Salt Lake City, Utah 84114-5801 801-538-5340 801-359-3940 (Fax)

September 6, 2000

Inland Production Company 410 Seventeenth Street, Suite 700 Denver, Colorado 80202

Monument Butte Unit Well: Monument Butte Fed. 1-23-8-16, Section 23, Township 8 Re: South, Range 16 East, Duchesne County, Utah

#### Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

- 1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
- 2. Conformance with all conditions and requirements of the complete application submitted by Inland Production Company.
- 3. A casing\tubing pressure test shall be conducted prior to commencing injection.

If you have any questions regarding this approval or the necessary requirements, please contact Brad Hill or Dan Jarvis at this office.

Associate Director, Oil and Gas

Dan Jackson, Environmental Protection Agency cc: Bureau of Land Management, Vernal Inland Production Company, Myton Ute Indian Tribe, Ft. Duchesne SITLA, Salt Lake City

#### DIVISION OF OIL, GAS AND MINING UNDERGROUND INJECTION CONTROL PROGRAM

#### PERMIT STATEMENT OF BASIS

Applicant: Inland Production CompanyWell: MBF 1-23-8-16Location: 23/8S/16EAPI: 43-013-32093

Ownership Issues: The proposed well is located on BLM land. The well is located in the Monument Butte Unit. Lands in the one-half mile radius of the well are administered by the BLM, the State of Utah and the Ute Tribe. Inland and various individuals hold the leases in the unit. Inland has provided a list of all surface, mineral and lease holders in the half-mile radius. Inland is the operator of the Monument Butte Unit. Inland has submitted an affidavit stating that all owners and interest owners have been notified of their intent.

**Well Integrity:** The proposed well has surface casing set at 317 feet and is cemented to surface. A 5 ½ inch production casing is set at 5911 feet and has a cement top at 535 feet. A 2 7/8 inch tubing with a packer will be set at 5248 feet. A mechanical integrity test will be run on the well prior to injection. There are 5 producing or injection wells in the area of review. All of the wells have adequate casing and cement. No corrective action will be required.

Ground Water Protection: According to Technical Publication No. 92 the base of moderately saline water is at a depth of approximately 350 feet. Injection shall be limited to the interval between 5266 feet and 5221 feet in the Green River Formation. Information submitted by Inland indicates that the fracture gradient for the 1-23-8-16 well is .832 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1894 psig. The requested maximum pressure is 1894 psig. The anticipated average injection pressure is 1500 psig. Injection at this pressure should not initiate any new fractures or propagate existing fractures in the adjacent confining intervals. Any ground water present should be adequately protected.

MBF 1-23-8-16 page 2

Oil/Gas& Other Mineral Resources Protection: The Board of Oil, Gas & Mining approved the Monument Butte Unit on August 14,1987. Correlative rights issues were addressed at that time. Previous reviews in this area indicate that other mineral resources in the area have been protected or are not at issue.

Bonding: Bonded with the BLM

Reviewer(s): Brad Hill

Actions Taken and Further Approvals Needed: A notice of agency action has been sent to the Salt Lake Tribune and the Uinta Basin Standard. A casing/tubing pressure test will be required prior to injection. It is recommended that Administrative approval of this application be granted.

			cations concerning water resources in the general vicinity of this project have been onsideration during the permit review process.
Reviev	ver(s):	Brad Hill	Date: 09/06/00



### United States Department of the Interior



# BUREAU OF LAND MANAGEMENT Utah State Office P.O. Box 45155 Salt Lake City, UT 84145-0155 http://www.blm.gov

IN REPLY REFER TO: 3106 (UT-924)

September 16, 2004

Memorandum

To:

Vernal Field Office

From:

Acting Chief, Branch of Fluid Minerals

Subject:

Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Milas Llouters

Michael Coulthard Acting Chief, Branch of Fluid Minerals

#### Enclosure

1. State of Texas Certificate of Registration

cc:

MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225 State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114

Teresa Thompson Joe Incardine

See illearance

Connie Seare

1

			•		•
UTSL-	15855	61052	73088	76561	
071572A	16535	62848	73089	76787	
065914	16539	63073B	73520A	76808	
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	17036	63073E	74805	76954	63073X
·	17424	630730	74806	76956	63098A
	18048	64917	74807	77233	68528A
UTU-	18399	64379	74808	77234	72086A
	19267	64380	74389	77235	72613A
02458	26026A	64381	74390	77337	73520X
03563	30096	64805	74391	77338	74477X
03563A	30103	64806	74392	77339	75023X
04493	31260	64917	74393	77357	76189X
05843	33992	65207	74398	77359	76331X
07978	34173	65210	74399	77365	76788X
09803	34346	65635	74400	77369	77098X
017439B	36442	65967	74404	77370	77107X
017985	36846	65969	74405	77546	77236X
017991	38411	65970	74406	77553·	77376X
017992	38428	66184	74411	77554	78560X
018073	38429	66185	74805	78022	79485X
019222	38431	66191	74806	79013 <sup>-</sup>	79641X
020252	39713	67168	74826	79014	80207X
020252A	39714	67170	74827	79015	81307X
020254	40026	67208	74835	79016	
020255	40652	67549	74868	79017	
020309D	40894	67586	74869	79831	
022684A	41377	67845	74870	79832	
027345	44210	68105	74872	79833 <sup>,</sup>	
034217A	44426	68548	74970	79831	
035521	44430	68618	75036	79834	
035521A	45431	69060	75037	80450	
038797	47171	69061	75038	80915	
058149	49092	69744	75039	81000	
063597A	49430	70821	75075		
075174	49950	72103	75078		•
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096550	50385	72105	75090		
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	50750	72107	75238	•	
10760	51081	72108	76239		
11385	52013	73086	76240		
13905	52018	73087	76241		
15392	58546	73807	76560		

Corporations Section P.O.Box 13697 Austin, Texas 78711-3697





#### Office of the Secretary of State

The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.





Secretary of State

## ARTICLES OF AMENDMENT TO THE ARTICLES OF INCORPORATION OF INLAND PRODUCTION COMPANY

In the Office of the Secretary of State of Texas

SEP 02 2004

Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

#### ARTICLE 1 - Name

The name of the corporation is Inland Production Company.

#### ARTICLE 2 - Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE - The name of the corporation is Newfield Production Company."

ARTICLE 3 - Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1<sup>st</sup> day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs, Treasurer

#### **OPERATOR CHANGE WORKSHEET**

ROUTING 1. GLH

2. CDW 3. FILE

Change of Operator (Well Sold)

The operator of the well(s) listed below has changed, effective:

Designation of Agent/Operator

9/1/2004

#### X Operator Name Change

Merger

Change	i, ciicc	uve.			9/1/2004			1			
			TO: ( New O	perator):				1			
FROM: (Old Operator): N5160-Inland Production Company											
			Route 3	Box 3630	-	•		1			
			Myton,	UT 84052							
Phone: 1-(435) 646-3721				646-3721							
0.			Unit:			·		1			
		*			<u> </u>			1			
SEC	TWN	RNG	API NO	ENTITY	LEASE	WELL	WELL	1			
				NO	TYPE	TYPE	STATUS				
19	040S	010W	4301332025		Fee	NA	LA	Τ			
19	040S	010W	4301332026		Fee	NA	LA	T			
19	040S	010W	4301332029		Fee	NA	LA	T			
19	040S	010W	4301332030		Fee	NA	LA	$\top$			
20	040S	010W	4301332016	99998	Fee	OW	LA	$\top$			
20	040S	010W	4301332017	99998	Fee	NA	LA				
24	040S	020W	4301332027		Fee	NA	LA				
24	040S	020W	4301332028		Fee	NA	LA	T			
23	080S	160E	4301332093	12683	Federal	OW	P	Т			
23	080S	160E	4301332094	12693	Federal	OW	P	$\top$			
23	080S	160E	4301332095	12753	Federal	OW	S				
24	080S	160E	4301332097	12692	Federal	OW	P	T			
04	090S	170E	4301332072	12511	Federal	D	PA				
								Г			
						1					
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	19 19 19 19 20 20 24 24 23 23 23 24	9 040S 19 040S 19 040S 19 040S 20 040S 20 040S 24 040S 24 040S 23 080S 23 080S 23 080S 24 080S	SEC TWN RNG   19   040S   010W   19   040S   010W   19   040S   010W   20   040S   010W   20   040S   010W   24   040S   020W   24   040S   020W   23   080S   160E   23   080S   160E   24   080S   160E	TO: (New On N2695-Newfie Route 3 Myton, Phone: 1-(435)  O. Unit:  SEC TWN RNG API NO  19 0408 010W 4301332025 19 0408 010W 4301332026 19 0408 010W 4301332029 19 0408 010W 4301332030 20 0408 010W 4301332016 20 0408 010W 4301332016 20 0408 010W 4301332017 24 0408 020W 4301332027 24 0408 020W 4301332027 24 0408 020W 4301332028 23 0808 160E 4301332094 23 0808 160E 4301332095 24 0808 160E 4301332097	TO: (New Operator): N2695-Newfield Production Route 3 Box 3630 Myton, UT 84052 Phone: 1-(435) 646-3721  Tunit:    SEC TWN RNG   API NO	TO: (New Operator): N2695-Newfield Production Compan Route 3 Box 3630 Myton, UT 84052 Phone: 1-(435) 646-3721  Type  19 0408 010W 4301332025  19 0408 010W 4301332026  19 0408 010W 4301332026  19 0408 010W 4301332029  Fee  19 0408 010W 4301332030  Fee  20 0408 010W 4301332016  20 0408 010W 4301332017  99998 Fee  20 0408 020W 4301332027  Fee  24 0408 020W 4301332027  Fee  24 0408 020W 4301332028  Fee  23 0808 160E 4301332093  12683 Federal  23 0808 160E 4301332094  12693 Federal  24 0808 160E 4301332097  12692 Federal	TO: (New Operator): N2695-Newfield Production Company Route 3 Box 3630 Myton, UT 84052 Phone: 1-(435) 646-3721  TO: Unit:    SEC TWN RNG   API NO	TO: (New Operator): N2695-Newfield Production Company Route 3 Box 3630 Myton, UT 84052 Phone: 1-(435) 646-3721  O. Unit:    SEC TWN RNG   API NO			

#### **OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/15/2004

(R649-8-10) Sundry or legal documentation was received from the NEW operator on: 9/15/2004

The new company was checked on the Department of Commerce, Division of Corporations Database on:

2/23/2005

Is the new operator registered in the State of Utah:

YES Business Number:

755627-0143

5. If NO, the operator was contacted contacted on:

6a. (R649-9-2)Waste Management Plan has been received on:	IN PLACE
6b. Inspections of LA PA state/fee well sites complete on:	waived
7. Federal and Indian Lease Wells: The BLM and or the	he BIA has approved the merger, name change,
or operator change for all wells listed on Federal or Indian leas	
8. Federal and Indian Units:	
The BLM or BIA has approved the successor of unit operato	or for wells listed on: n/a
9. Federal and Indian Communization Agreements The BLM or BIA has approved the operator for all wells liste	
10. Underground Injection Control ("UIC") The Inject, for the enhanced/secondary recovery unit/project for the	Division has approved UIC Form 5, Transfer of Authority to the water disposal well(s) listed on:  2/23/2005
DATA ENTRY:	
1. Changes entered in the Oil and Gas Database on:	2/28/2005
2. Changes have been entered on the Monthly Operator Change	e Spread Sheet on: 2/28/2005
3. Bond information entered in RBDMS on:	2/28/2005
4. Fee/State wells attached to bond in RBDMS on:	2/28/2005
5. Injection Projects to new operator in RBDMS on:	2/28/2005
5. Receipt of Acceptance of Drilling Procedures for APD/New or	n: waived
FEDERAL WELL(S) BOND VERIFICATION:	
1. Federal well(s) covered by Bond Number:	UT 0056
INDIAN WELL(S) BOND VERIFICATION:	61DSDD1/2012
I. Indian well(s) covered by Bond Number:	61BSBDH2912
FEE & STATE WELL(S) BOND VERIFICATION: 1. (R649-3-1) The NEW operator of any fee well(s) listed covere	
2. The FORMER operator has requested a release of liability from The Division sent response by letter on:	n their bond on:n/a* n/a
LEASE INTEREST OWNER NOTIFICATION:	
3. (R649-2-10) The <b>FORMER</b> operator of the fee wells has been of their responsibility to notify all interest owners of this change	
COMMENTS:	
Bond rider changed operator name from Inland Production Compa	any to Newfield Production Company - received 2/23/05

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
ENTITY ACTION FORM -FORM

OPERATOR: NEWFIELD PRODUCTION COMPANY
ADDRESS: RT. 3 BOX 3439
MYTON, UT 84062

OPERATOR ACCT. NO. N2695

							WELL	OCATION		SPUT	EFFECTIVE
TION	CURRENT	NEW	API NJIMBER	WELL NAME	-	8C	119	RO	COUNTY	OATE	DATE
DOE	BITTY NO.	EMITTY NO.			SENW	19			DUCHESNE	1/17/2005	5/31/07
	14529	16149	4301332373	FENCELINE 6-19-8-17	SEMM	13	00	11/2	<u> </u>		<del></del>
L 1 COM	MENTS: neve unit fourned	zini	teff 5/1	107	,						
				WELL NAME		W	BUL LOCAT	TION		SPUD	EFFECTIVE
TION	CURRENT	NEW	API MUNISER	WITT IONIE	QQ	SC	119	RG	COUNTY	DATE	DATE
300€	ENTITY NO.	ENTITY NO.		FENCELINE 6-24-8-16	SENW	24	85	16E	DUCHESNE	3/3/2005	5/31/0
D	14597	16/49	4301332362	PENCELINE 0-24-0-10	7	1 = -	<u></u>				,
Commends: new unit formed  Wint 4 5/1/07											
			- Т	WELL NAME			WELL	LOCATION		SPUD	<b>EFFECTIVE</b>
MORE	CLERENT	MEAN	API NUMBER	Transmiss PM To The Control of the C	04	SC	ΠP	RG	COUNTY	DATE	+ -7 -
3000	14399	16149	4301332361	FENCELINE 7-24-8-16	SWNE	24	88	16E	DUCHESNE	11/18/2004	5/31/0
onou!	CLRRENT	rinit	APINABER	/ 07	T	l ec		LOCATION	COUNTY	SPUD DATE	EFFECTIVE DATE
CODE	ENTITY NO.	EKTITY HO.		FENCELINE 8-24-8-16	SEN			1		3/10/2005	5/31/0
D 14610 16/49 4301332360 FENCELINE 8-24-8-16 SENE 24 63 162 55512512											
		7 1001	- IL 5/11	/07							To a second of
		ZM		WELLNAME			WEL	LLOCATION		SPUD	DATE
ACTION	CURRENT	MENA	APTRIMBER		90	30	TP	RG	COUNTY	37AD	1 -1 /
CODE	ENTITY NO.	16/4°	4301332093	MON BT 1-23-8-16	NEN	E 23	8	S 16E	DUCHESNE	2/3/2000	5/31/0
D	12683	1011	430100200								
WELL 5 COMMENTS: ONLY AND SITURE SITURES											
			V • .	VEIL NAME				T FOCYLLO		SPUD DETE	EFFECTIVE DATE
CODE	CUMPRENT ENTATY NO.	NEW NO.	API KUMBER	7,120	00	80				DATE	1-1
D	12693	16/4	4301332094	MON BT 2-23-8-16	NWN	E 2	3   8	S 161	DUCHESNI	E 2/11/2000	15/31/0
			\ / /	-1./-							
WELL 5 C	CHALENTE: may usit forth	uni	t eff 5	5/1/07							

ACTION CODES (See transcions on back of form)

A - 1 new easily for new well (single well only)

8 - - well to existing antity (great) areast week)

C - trees one selecting entity to another existing entity

D - well from one misting easity to a new arity

E - they (explain in community section)

Soneture

**Production Clerk** 

April 12, 2007

Date

Jentri Park

INSPECTION FORM 6

#### STATE OF UTAH DIVISION OF OIL GAS AND MINING

#### INJECTION WELL - PRESSURE TEST

Well Name: Frace (INC /-)3-8-16 API Number: 43-013-32098  Qtr/Qtr: NE/NE Section: 23 Township: 85 Range: 16E
Lease: State// Fee Federal U7U847/57 Indian Date:/1-/4-07
Initial Conditions:
Tubing - Rate: Pressure: 300 psi  Casing/Tubing Annulus - Pressure: 550 psi Pump Ul 4 Hat of Thad
Casing/Tubing Annulus - Pressure: 550 psi Rump Of 4 Hat of Thad
Conditions During Test:
Time (Minutes)  Annulus Pressure  Tubing Pressure  300
5 <u>/400</u> 360 10 /395 3:05 300
$\frac{10}{15}$ $\frac{\cancel{395}}{\cancel{385}}$ $\frac{300}{\cancel{385}}$
$\frac{7}{\sqrt{375}} = \frac{368}{300}$
$\frac{7365}{300}$
$\frac{30}{\cancel{360}}$
Results: Pass/Fail
Conditions After Test:
Tubing Pressure:psi
Casing/Tubing Annulus Pressure:
COMMENTS: NEW CONVERSION JUSTED 3:58 PM
Onomber Read Play of
Operator Representative

RECEIVED NOV 1 5 2007

DIV. OF OIL, GAS & MINING

#### STATE OF UTAH

	5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-76560						
SUNDRY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:						
Do not use this form for proposals to dril wells, or to drill horizonta	7. UNIT OF CA AGREEMENT NAME: FENCELINE UNIT						
1 TYPE OF WELL:	8. WELL NAME and NUMBER:						
OIL WELL	GAS WELL OTHER			MONUMENT BUTTE FED 1-23-8-16			
2. NAME OF OPERATOR:				9. API NUMBER:			
NEWFIELD PRODUCTION COM	PANY			4301332093			
3. ADDRLSS OF OPERATOR:		-	PHONE NUMBER	10. FIELD AND POOL, OR WILDCAT:			
	y Myton STATE UT	ZIP 84052	435,646,3721	MONUMENT BUTTE			
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 660 FNL 66	0 FEL			COUNTY: DUCHESNE			
OTR/OTR SECTION TOWNSHIP. RANGE. N	STATE: UT						
ii. CHECK APPROP	RIATE BOXES TO INDICAT	E NATURE (	OF NOTICE, REP	ORT, OR OTHER DATA			
TYPE OF SUBMISSION		TY	PE OF ACTION				
	ACIDIZE	DEEPEN		REPERFORATE CURRENT FORMATION			
NOTICE OF INTENT (Submit in Duplicate)	ALTER CASING	FRACTURE	TDEAT	SIDETRACK TO REPAIR WELL			
(Submit in Duplicate)		=		=			
Approximate date work will	CASING REPAIR	NEW CONST		TEMPORARITLY ABANDON			
	CHANGE TO PREVIOUS PLANS	OPERATOR O	CHANGE	TUBING REPAIR			
<del></del>	CHANGE TUBING	PLUG AND A	ABANDON	VENT OR FLAIR			
X SUBSEQUENT REPORT	CHANGE WELL NAME	PLUG BACK		WATER DISPOSAL			
(Submit Original Form Only)	X CHANGE WELL STATUS	PRODUCTIO	N (START/STOP)	WATER SHUT-OFF			
Date of Work Completion:	COMMINGLE PRODUCING FORMATIONS	RECLAMATI	ION OF WELL SITE	OTHER: -			
12/06/2007	X CONVERT WELL TYPE	RECOMPLET	TE - DIFFERENT FORMATION				
			<del></del>				
This well was converted from 12/12/07 Dennis Ingram was given at that time to pe	rform the test 12/13/07. On 12/13/ well was not injecting during the tes	on well on 12/6/ s contacted con 07 the csg was	2007. acerning the initial M s pressured up to 11	IT on the above listed well. Permission 30 psig and charted for 30 minutes			
NAME (PLEASE PRINT) Callie Ross		,	TITLE Production Clerk				
( 55.05 ( 55.05							
SIGNATURE							

(This space for State use only)

RECEIVED FEB 1 1 2008



#### RECEIVED

AUG 0 7 2000

DIVISION OF OIL, GAS AND MINING

August 4, 2000

Mr. Dan Jarvis State of Utah Division of Oil, Gas and Mining P. O. Box 145801 Salt Lake City, Utah 84114-5801

RE:

Permit Application for Water Injection Well Monument Butte Federal #1-23-8-16 Monument Butte Field, Lease #UTU-76560 Section 23-Township 8S-Range 16E Duchesne County, Utah

Dear Mr. Jarvis:

Inland Production Company herein requests approval to convert the Monument Butte Federal #1-23-8-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

I hope you find this application complete; however, if you have any questions or require additional information, please contact Joyce McGough or George Rooney at (303) 893-0102.

Sincerely,

David Donegan

Manager of Operations

# INLAND PRODUCTION COMPANY APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL MONUMENT BUTTE FEDERAL #1-23-8-16 MONUMENT BUTTE (GREEN RIVER) FIELD LEASE #UTU-76560

August 4, 2000

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Attachment E-1 Water Analysis of the Primary Fluid to be Injected

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Attachment E-3 Analysis of Formation Water from the Mon Butte Fed 1-23-8-16
Attachment E-4 Analysis of the Compatibility of the Injected and Formation Fluids

Attachment G Geological Data on Injection and Confining Zones

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Fracture Report Dated February 24, 2000

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Federal 1-23-8-16

Attachment M-2 Site Plan of Monument Butte Federal 1-23-8-16

Attachment Q Plugging and Abandonment Plan

Attachment Q-1 Wellbore diagram of Proposed Plugging Plan

### STATE OF UTAH DIVISION OF OIL, GAS AND MINING

#### APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR ADDRESS	410 1		on Company t, Suite 700				AUG 7		
								To continue to the second	,
Well Name an	d numl	oer:	Monument I	Butte Fed	deral #1-23-8-1	6			
Field or Unit n	ame:		Monument I	Butte (Gr	een River)			Lease No	. <u>UTU-</u>
Well Location	QQ _	NE NE	section	23	township _	8S	range	16E	_ cou

Field or Unit i	name:		Monumen	t Butte (Gre	en River)			_ Lease No.	U1U-/656	50
Well Location	n: QQ	NE NE	_ section	23	_ township	<u>8S</u>	_range	16E	county	Duchesne
Is this applica	ation fo	r expansior	n of an exis	ting project	?		Yes [X]	No [ ]		
Will the propo	osed w	ell be used	for:	Disposal?	Recovery?		Yes [ ] N	o[X]		
Is this applica				ed?			Yes[] N	o[X]		
If this applica has a casin Date of tes API numbe	ig test b	oeen perfor 2/20/00		well? 			Yes [ X] 1	No[]		
Proposed inje Proposed ma Proposed inje mile of the we	ximum ection z	injection: cone contai		] gas, and/	information			5-2 should		
		<u> </u>		accompar	ny this form.					
List of Attach	ments:		Attachme	nts "A" thro	ugh "Q"					
		<del>.</del>								
I certify that t	his repo	ort is true a	nd complet	e to the bes	st of my know	vledge:	, ,5	)		
Name:	Davi	id Donegar	1		_Signature	Now		ones -		_
Title	Man	ager of Op	erations		Date		4-Aug-0	0 /		
Phone No.	(303	) 893-0102			<del>_</del>					
(State use or	nly)		****							
Application a	• /	d by					Title			
Approval Dat	e						_			
I										

Comments:

#### WORK PROCEDURE FOR INJECTION CONVERSION

- 1. Rig up hot oil truck to casing. Pump water. Unseat pump. Flush rods. Trip out of hole with rods and pump.
- 2. Trip out of hole with tubing, breaking and doping every connection. Trip in hole with packer and tubing. Rig up water truck to casing. Pump packer fluid. Set packer.
- 3. Test casing and packer.
- 4. Rig down, move out.

## Monument Butte Federal #1-23

Spud Date: 2/03/00 Put on Production: 2/25/00 GL: 5341' KB: 5351'

Wellbore Diagram

Initial Production: 156 STBOPD, 100 MCFD, 0 STBWPD

SURFACE CASING CSG SIZE: 8-5/8" GRADE: J-55 WEIGHT: 24# LENGTH: 7 JTS (305.6') DEPTH LANDED: 317.45'

HOLE SIZE: 12-1/4" CEMENT DATA:

145 sxs Class "G"cmt w/ 2% CaCl2 & 1/4#/sk Cello-Flake (5 bbls to surface)

TOC: 535

#### PRODUCTION CASING

CSG SIZE: 4-1/2" GRADE: J-55 WEIGHT: 11.6 ppf LENGTH: 137 jts (5910') HOLE SIZE: 7-7/8"

CEMENT DATA: 350 sxs Prem Lite II w/ 10% Gel & 3% KCl 550 sxs 50-50 POZ w/ 2% Gel & 3% KCl

CEMENT TOP AT: SET AT: 5921.76' KB

#### TUBING

SIZE/GRADE/WT: 2-3/8", "LS", 4.7 ppf

NO. OF JOINTS: 175 jts TUBING ANCHOR: 5248' KB SEATING NIPPLE: 2-3/8"

TOTAL STRING LENGTH: EOT @ 5405' KB

SN LANDED AT: 5311' KB

#### SUCKER RODS

POLISHED ROD: 1-1/2"x22'

SUCKER RODS: 4 1-1/2" wt. Bars, 4-3/4" guided rods, 109-3/4" slick rods, 96-

3/4" guided rods, 1-3/4" slick rod, 1-8', 6', 4', 2' ponies

PUMP SIZE: Axelson 20-150-RWAC 16'

STROKE LENGTH: 74" PUMP SPEED, SPM: 6

LOGS: DIGL, SP, GR, CAL, Neutron, Comp. Density

#### ATTACHMENT M-1



### Inland Resources Inc.

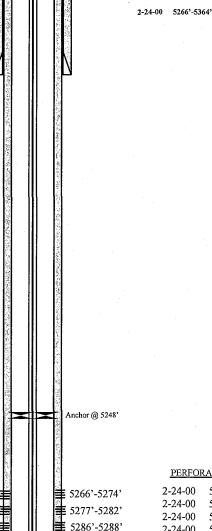
#### Monument Butte Federal #1-23

660' FNL 660' FEL

SWNE Section 23-T8S-R16E

Duchesne Co, Utah

API #43-013-32093; Lease #UTU-76560



5339-5364'

5446'-5449' 5469'-5474' **5**614'-5621'

SN @ 5311'

EOT @ 5405'

PBTD @ 5679'

TD @ 5966'

## FRAC JOB

2-22-00 5446'-5621' Frac C/B sands: 45,516# 20/40 sand in 325 bbl Viking I-25 fluid. Perfs broke down at 2880 psi. Treated at avg. pressure of 3200 psi w/ avg, rate of 28

BPM. Screened out.

Frac D sands: 138,783# 20/40 sand in 696 bbl Viking I-25 fluid. Perfs broke back at 2750 psi. Treated at avg. pressure of 2300 psi w/ avg. rate of 34 bpm. ISIP-2600 psi, 5 min.-2152 psi.

#### PERFORATION RECORD

2-24-00	5266'-5274'	2 JSPF	16 holes
2-24-00	5277'-5282'	2 JSPF	10 holes
2-24-00	5286'-5288'	2 JSPF	4 holes
2-24-00	5339'-5364'	2 JSPF	50 holes
2-22-00	5446'-5449'	4 JSPF	12 holes
2-22-00	5469'-5474'	4 JSPF	20 holes
2-22-00	5614'-5621'	4 JSPF	28 holes

## REQUIREMENTS FOR INJECTION OF FLUIDS INTO RESERVOIRS RULE R615-5-1

- 1. Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.
- 2. A request for agency action for authority for the injection of gas, liquefied petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:
  - 2.1 The name and address of the operator of the project.

Inland Production Company 410 17<sup>th</sup> Street, Suite 700 Denver, Colorado 80202

2.2 A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile of the project area.

See Attachment A-4

2.3 A full description of the particular operation for approval is requested.

Approval is requested to convert the Monument Butte Federal #1-23-8-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

2.4 A description of the pools from which the identified wells are producing or have produced.

The proposed injection well will inject into the Green River Formation.

2.5 The names, description and depth of the pool or pools to be affected.

The injection zone is in the Green River Formation. In the Monument Butte Federal #1-23-8-16 well, the proposed injection zone is from 5266' - 5621'. The confining strata directly above and below the injection zones are the top of the Garden Gulch formation and the Basal Carbonate. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

2.6 A copy of a log of a representative well completed in the pool.

The referenced log for the Monument Butte Federal #1-23-8-16 is on file with the Utah Division of Oil, Gas and Mining.

2.7 A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.

The primary type and source of fluid to be used for injection will be culinary water from the Johnson Water District supply line. The secondary type of fluid to be used for injection will be culinary water from the Johnson Water District commingled with produced water from the Monument Butte Federal 1-23-8-16. The average estimated injection of fluids will be at a rate of 300 BPD, and the estimated maximum injection will be at a rate of 500 BPD.

2.8 A list of all operators and surface owners within one-half mile radius of the proposed project.

See Attachment A-2.

2.9 An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.

See Attachment A-3.

2.10 Any additional information the Board may determine is necessary to adequately review the petition.

Inland Production Company will supply any additional information requested by the Utah Division of Oil, Gas and Mining.

4.0 Establish recovery projects may be expanded and additional wells placed on injection only upon authority from the Board after notice and hearing or by administrative approval.

This proposed injection well is on a Federal lease (Lease #UTU-76560) in the Monument Butte (Green River) Field, and this request is for administrative approval.

#### REQUIREMENTS FOR CLASS II INJECTION WELLS INCLUDING WATER DISPOSAL, STORAGE AND ENHANCED RECOVERY WELLS SECTION V - RULE R615-5-2

- 1. Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.
- 2. The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:
  - 2.1 A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.

See Attachments A-1 and A-4.

2.2 Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper and porosity.

All logs are on file with the Utah Division of Oil, Gas and Mining.

2.3 A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.

A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.

2.4 Copies of logs already on file with the Division should be referenced, but need not be re-filed.

All copies of logs are on file with the Utah Division of Oil, Gas and Mining.

2.5 A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.

The casing program is 8-5/8", 24#, J-55 surface casing run to 317' KB, and 4-1/2" 11.6# J-55 production casing run from surface to 5923' KB. A casing integrity test will be conducted at the time of conversion.

See Attachment G.

2.6 A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.

The primary type and source of fluid to be used for injection will be culinary water from the Johnson Water District supply line. The secondary type of fluid to be used for injection will be culinary water from the Johnson Water District commingled with produced water. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.

2.7 Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.

See Attachments E-1, E-2, E-3 and E-4 (Water Analyses).

2.8 The proposed average and maximum injection pressures.

The proposed average injection pressure will be approximately 1300 psig and the maximum injection pressure will not exceed 1894 psig.

2.9 Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.

The minimum fracture gradient for the Monument Butte Federal #1-23-8-16, for proposed zones (5266' - 5621') calculates at 0.832 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 1894 psig. See Attachment G through G-4.

2.10 Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent.

In the Monument Butte Federal #1-23-8-16, the injection zone (5266' - 5621') is in the Douglas Creek member of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The Douglas Creek member is composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-25' within the Monument Butte area. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

2.11 A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter the improper intervals.

See Attachments C through C-5.

Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One-way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

2.12 An affidavit certifying that a copy of the application has been provided to all operators or owners, and surface owners within a one-half mile radius of the proposed injection well.

See Attachment A-3.

# 2.13 Any other information that the Board or Division may determine is necessary to adequately review the application.

Inland Production Company will supply any requested information to the Board or Division.

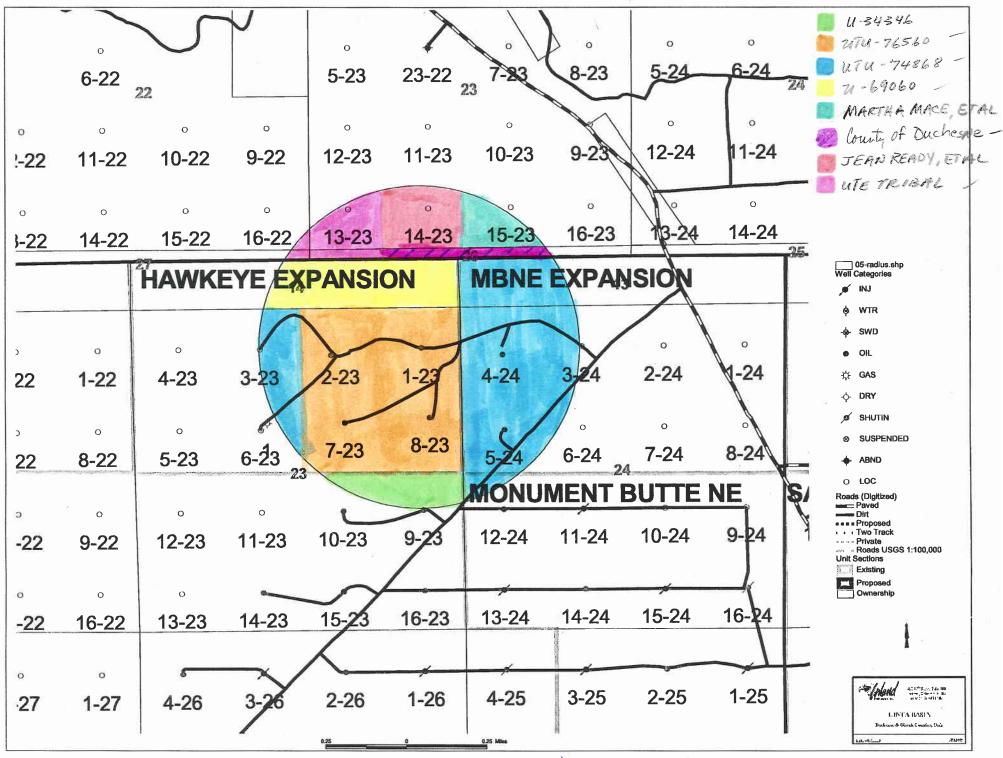
#### **ATTACHMENT A**

#### **AREA OF REVIEW METHODS**

Give the methods, and if appropriate, the calculations used to determine the size of the area of review (fixed radius or equation). The area of review shall be a fixed radius of  $\frac{1}{4}$  mile from the well bore unless the use of an equation is approved in advance by the Director.

The area of review shall be a fixed radius of ½ mile from the Monument Butte Federal 1-23-8-16. Inland Production Company has chosen to use a fixed radius of ½ mile to satisfy the requirements of both the EPA and the State of Utah.

Attachment A-1	One-half mile Radius Map
Attachment A-2	Listing of Surface Owners with Addresses
Attachment A-3	Certification for Surface Owner Notification
Attachment A-4	Well Location Plat
Attachment A-5	Name(s) and Address(s) of Surface Owners



MON BUTTE FED #1-23

ATTACHMENT A-1

#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
1	Township 4 South, Range 2 West Section 22: S/2 Section 23: Lots 1, 6, 7, NE/4NE/4, W/2SW/4 Section 24: Lot 1, NE/4SW/4 Section 26: Lot 4 Section 27: Lots 1, 2, 3, 4 Limited to the base of the Green River For			(Surface Rights) Clinton & Donette Moon
2	is not present or cannot be identified to the  Township 4 South, Range 2 West Section 26: Lots 1, 2, 3		Inland Production Company	(Surface Rights) David Skoufos
3	Township 8 South, Range 16 East Section 23: SE/4 Section 25: W/2NW/4 Section 26: SW/4, N/2SE/4	U-34346 HBP	Inland Production Company Apache Corporation	(Surface Rights) USA

<u>#</u>	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
4	Township 8 South, Range 16 East Section 23: NE/4	UTU-76560 HBP	Inland Production Company Citation Oil & Gas Corp Citation 1994 Investment LTD	(Surface Rights) USA
5	Township 8 South Range 16 East Section 13: All (Excluding patent # 813121)	UTU-74868 10/18/05	Inland Production Company	(Surface Rights) USA
	Section 22: NE/4 Section 23: NW/4 Section 24: N/2, Excluding Patent (# 8133	21 & 884015)		

#	Land Description	Minerals Ownership Expires	& Minerals Leased By	Surface Rights
6	Township 8 South, Range 16 East Section 14: Lots 1-4 Section 15: Lots 1-3 Section 21: Lots 1-4, SE/4NE/4, NW/4SV Section 28: NE/4, S/2NW/4 Section 29: S/2NE/4, W/2, N/2SE/4	UTU-69060 HBP V/4, SE/4	Inland Production Company	(Surface Rights) USA
7	Township 4 South, Range 2 West Section 23: Lots 3, 8, 9, S/2NW/4, NW/4NW/4, SW/4SE/4	Martha W. Mace Hal Wilcken, et ux Leonard Wilcken, et Leslie R. Wilcken, et Verda Wilcken, a wie	ux	(Surface Rights) Larry T. Wilcken

#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
8	Township 4 South, Range 1 West Section 17: Lot 1, NE/4NW/4 Township 4 South, Range 2 West Section 23: Lots 2, 4, NW/4SE/4, E/2SW/4	Frank A. Moore Inlar Jean Ready Charles Imhoff Donald J. Pyles John Imhoff Carol Sorrell Willard D. Pyles Estate Sylvia B. Melrose August R. Pyles, et al Loraine Yoho Pearl Duncanson James Pyles Dorothy Charbono Roscoe E. Pyles Sarah J. Davis John C. Pyles	nd Production Company	(Surface Rights) Harold Pyles

1-23-8-16 inj.doc.

#### **CERTIFICATION FOR SURFACE OWNER NOTIFICATION**

RE: Application for Approval of Class II Injection Well Monument Butte Federal #1-23-8-16

I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

Signed:

Inland Production Company

David Donegan

Manager of Operations

Sworn to and subscribed before me this 2000.

\_ day of

Notary Public in, and for the State of Colorado:

My Commission Expires 11/14/2000

## ATTACHMENT A-4 T8S, R16E, S.L.B.&M.

1910 Brass Cap

1.0' High

MONUMENT BUTTE FEDERAL #1-23-8-16

S89°52'W - 80.10 (G.L.O.)

S89\*56'W - 40.06 (G.L.O.)

Elev. Ungraded Ground = 5342'

## INLAND PRODUCTION CO.

Well location, MONUMENT BUTTE FEDERAL #1-23-8-16, located as shown in the NE 1/4 NE 1/4 of Section 23, T8S, R16E, S.L.B.&M. Duchesne County, Utah.

### BASIS OF FLEVATION

1910 Bross Cop

0.3' High

Bearings,

(Basis of (Measured)

6.7.0 2648.78"

M. 10.00N

(G.L.O.)

N00.00N

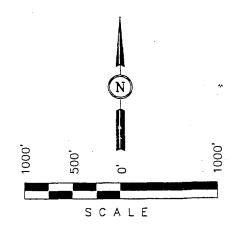
HOT

Cop, Steel Post

S89'44'53"W 2645.55' (Meas.)

660'

SPOT ELEVATION AT THE NORTHEAST CORNER OF SECTION 23, T8S, R16E, S.L.B.&M. TAKEN FROM THE MYTON SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5331 FEET.



#### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY MELOR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF

> REGISTERED LAND REGISTRATION INDE TETS 19 STATE OF WITH KAY

> > INLAND PRODUCTION CO.

UINTAH ENGINEERING & LAND SURVEYING 85 SOUTH 200 EAST - VERNAL UTAH 84078

(435) 789-1017

DATE DRAWN: DATE SURVEYED: SCALE 1" = 1000'6-11-98 7-9-98 PARTY REFERENCES G.S. J.F. C.B.T. G.L.O. PLAT WEATHER

## = SECTION CORNERS LOCATED.

## LEGEND:

NO0'01'W (G.L.O.)

= 90' SYMBOL

= PROPOSED WELL HEAD.

## Names and Addresses of Surface Owners

1. USA

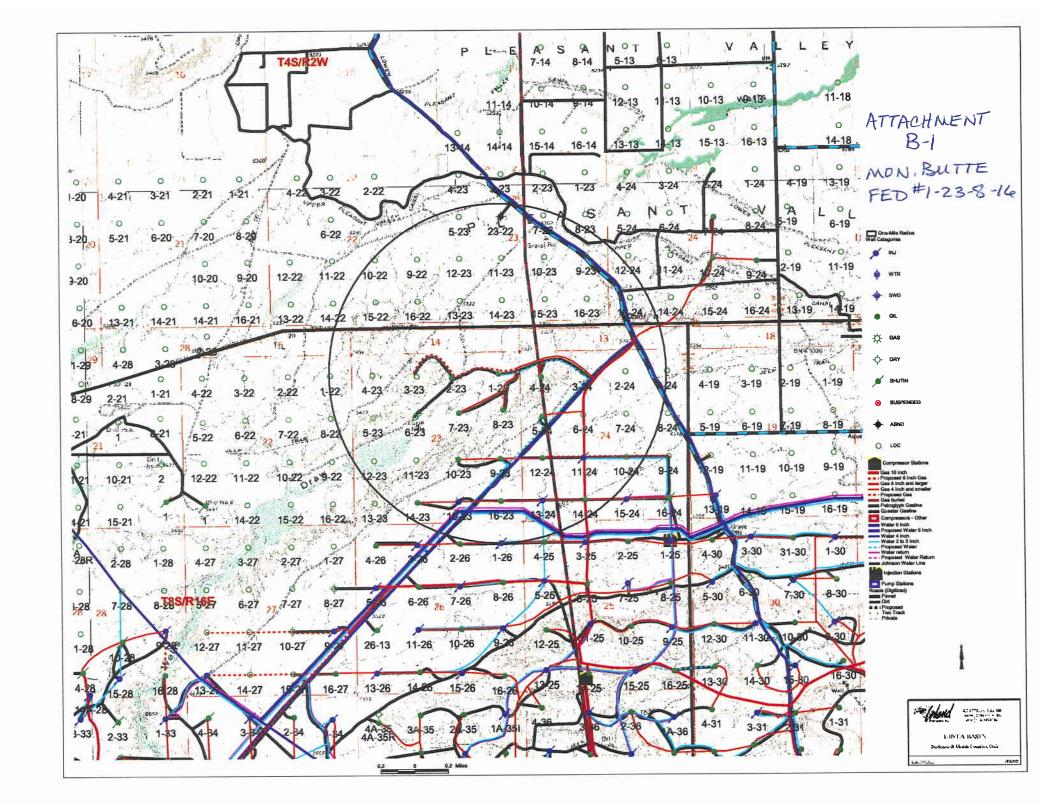
#### **ATTACHMENT B**

#### MAPS OF WELLS/AREA AND AREA OF REVIEW

Submit a topographic map, extending one mile beyond the property boundaries, showing the injection well(s) or project area for which a permit is sought and the applicable area of review.

There are no hazardous waste, treatment, storage or disposal facilities within a one-mile radius of the property boundaries.

Attachment B-1 Area of Review and Existing/Proposed Waterlines



#### CORRECTIVE ACTION PLAN AND WELL DATA

Submit a tabulation of data reasonably available from public records or otherwise known to the applicant on all wells within the area of review, including those on the map required in Attachment B, which penetrate the proposed injection zone.

Step rate tests will be performed periodically to determine the fracture pressure. The injection pressure will be kept under the fracture pressure

Attachment C-1	Wellbore Diagram – Monument Butte Federal #2-23-8-16
Attachment C-2	Wellbore Diagram – Monument Butte Federal #7-23-8-16
Attachment C-3	Wellbore Diagram – Monument Butte Federal #8-23-8-16
Attachment C-4	Wellbore Diagram – Monument Butte Federal #4-24-8-16
Attachment C-5	Wellbore Diagram – Monument Butte Federal #5-24-8-16

## Monument Butte Federal #2-23

Spud Date: 2/11/00 Put on Production: 3/11/00 GL: 5361' KB: 5371'

Wellbore Diagram

Initial Production: ?

5619'-5625'

5482'-5488'

3-8-00 5267'-5298'

## SURFACE CASING CSG SIZE: 8-5/8' GRADE: J-55 WEIGHT: 24# LENGTH: 7 JTS (293') HOLE SIZE: 12-1/4" CEMENT DATA:

DEPTH LANDED: 304,85°

141 sxs Class "G"cmt w/ 2% CaCl2 & 1/4#/sk Celio-Flake (6 bbls to surface)

FRAC JOB

3-2-00

3-7-00

Frac B sands: 56,834# 20/40 sand in 425 bbl Viking I-25 fluid. Perfs broke down at 3800 psi. Treated at avg. pressure of 2700 psi w/ avg, rate of 30 BPM. ISIP-3200 psi, 5 min.-2335 psi

Frac C sands: 41,060# 20/40 sand in 270 bbl Viking I-25 fluid. Perfs broke down at 3762 psi. Treated at avg. pressure of 2900 psi w/ avg. rate of 28.7 bpm. W/ 6# sand on perfs blender tub stacked out. Shut down frac, cleaned tub. Restarted frac, screened out. Est. 16,000# sand in formation, 25,000# in csg.

Frac D sands: 76,857# 20/40 sand in 491 bbl Viking I-25 fluid. Perfs broke down at 3380 psi. Treated at avg. pressure of 2300 psi w/ avg. rate of 34.9 BPM. ISIP-2750 psi, 5 min.-2422 psi.

#### PRODUCTION CASING

CSG SIZE: 5-1/2" GRADE: J-55 WEIGHT: 15.5 ppf LENGTH: 140 its (5939') HOLE SIZE: 7-7/8"

CEMENT DATA: 250 sxs Prem Lite II w/ 10% Gel & 3% KCl

400 sxs 50-50 POZ w/ 2% Gel & 3% KCl

CEMENT TOP AT: / OO SET AT: 5950.42' KB

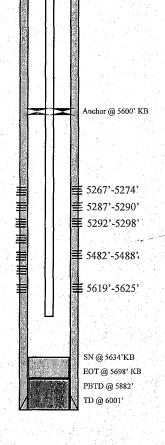
#### TUBING

SIZE/GRADE/WT: 2-7/8"6.5ppf J-55 NO. OF JOINTS: 182 jts (5684') TUBING ANCHOR: 5600 25' KB SEATING NIPPLE: 2-7/8"

TOTAL STRING LENGTH: EOT @ 5698.33' KB

SN LANDED AT: 5634,25' KB

SUCKER RODS



PERFORATION RECORD

3-7-00 5267'-5274' 4 JSPF 28 holes 3-7-00 5287'-5290' 4 JSPF 12 holes 3-7-00 5292'-5298' 4 JSPF 24 holes 5482'-5488' 3-6-00 4 ISPE 24 holes 3-2-00 5619'-5625' 4 JSPF 24 holes



## Inland Resources Inc.

#### Monument Butte Federal #2-23

766' FNL 2135' FEL

NWNE Section 23-T8S-R16E

Duchesne Co, Utah

API #43-013-32094; Lease #UTU-76560

## Monument Butte Federal #7-23

Spud Date: 12/16/99 Put on Production: 1/19/00 GL: 5365' KB: 5375'

SURFACE CASING

LENGTH: 7 jts. (314.29')
DEPTH LANDED: 326.08'

HOLE SIZE: 12-1/4"

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

Wellbore Diagram

Initial Production: 104 BOPD

#### FRAC JOB

1/17/00 5241'-5267'

Frac D sand as follows: 50,000# 20/40 sand in 354 bbls Viking 1-25 fluid. Perf Brokedown @ 2450 psi. Treated @ avg press of 1800 psi, wlavg rate of 26 BPM. ISIP: 1880 psi, 5-min 1716 psi., 10-min 1582 psi. Flowback on 12/64 choke for 3 hours and died.

#### PRODUCTION CASING

15.8 ppg W 1.17 cf/sk yield, Est. 2 bbl to surface

CSG SIZE: 4-1/2" GRADE: J-55 WEIGHT: 11.6#

LENGTH: 142 jts. (5950.6') DEPTH LANDED: 5948.2' KB

HOLE SIZE: 7-7/8"

CEMENT DATA:

340 sxs Premlite II + 0.5% S.M. + 10% Gel +3#/sk CSE + 2#/sk Kol-Seal + 3% KCl +

0.25#/sk cello-flake

CEMENT DATA: 141 sxs Class "G" w/ 2% CaCl2 & 0.25#/sk celloflake.

525 sxs 50/50 Poz + 3% KCl + 0.25#/sk cello-flake + 2% Gel + 3% S.M.

CEMENT TOP AF. 528' per CBL

#### TUBING

SIZE/GRADE: 2-3/8" LS NO. OF JOINTS: 169 jts TUBING ANCHOR: 5215.42' KB

SEATING NIPPLE: (1.10°)

TOTAL STRING LENGTH: EOT @ 5312.52' KB

SN LANDED AT: 5250.61' KB

#### SUCKER RODS

POLISHED ROD: 1-1/4" x 22'

SUCKER RODS: 1-8', 1-4', 1-2' X 3/4" Pony Rods, 90 3/4" Scrapered Rods, 105 3/4" Plain rods, 10 3/4" Scrapered Rods, 4 1-1/2" Weight Rods

PUMP SIZE: 2" x 1-1/2" x 16' RHAC rod pump w/ SM plunger

STROKE LENGTH: 72"

PUMP SPEED, SPM: 6 SPM

LOGS:DIGL, GR, SP, Compensated Density, CBL-GR

### PERFORATION RECORD

1/15/00 5241'-5244' 4 SPF 12 holes 1/15/00 5258'-5267' 4 SPF 36 holes

Anchor @ 5215' KB

5241'-44'

5258'-67'

SN @ 5251' KB EOT @ 5313' KB Sand Top @ 5837' KB PBTD @ 5884' KB TD @ 5950'



### Inland Resources Inc.

#### Monument Butte Federal #7-23-8-16

1861 FNL 1932 FEL

SWNE Section 23-T8S-R16E

Duchesne Co, Utah

API #43-013-32100; Lease #UTU-76560

## Monument Butte Federal #8-23

Spud Date: 11/28/00 Put on Production: 12/31/99 GL: 5393.6' KB: 5403.6'

#### Wellbore Diagram

#### SURFACE CASING FRAC JOB CSG SIZE: 8-5/8" 12-23-99 5455'-5490' Frac C sands: 62,802# 20/40 sand in 513 bbl Viking I-25 fluid. Perfs broke GRADE: J-55 down at 2750 psi. Treated at avg. WEIGHT: 24# pressure of 1700 psi w/ avg, rate of 26 BPM. ISIP-2500 psi, 5 min.-2400 psi. LENGTH: 7 JTS (313') 12-23-99 5287'-5369' Frac D sands: 70.255# 20/40 sand in 477 DEPTH LANDED: 324.84' KB bbl Viking I-25 fluid. Perfs broke down HOLE SIZE: 12-1/4" at 2100 psi. Treated at avg. pressure of 1350 psi w/ avg. rate of 30 bpm. ISIP-CEMENT DATA: 141 sxs Class "G"cmt w/ 2% CaCl2 & 2150 psi, 5 min.-2030 psi. 1/4#/sk Cello-Flake (3 bbls to surface) PRODUCTION CASING CSG SIZE: 5-1/2" GRADE: J-55 WEIGHT: 15.5 ppf LENGTH: 147 jts (6279') HOLE SIZE: 7-7/8" CEMENT DATA: 311 sxs Prem Lite II w/ 10% Gel & 3% KCl &0.5% S.M. & 3#/sk CSE & 2#/sk Kol-Seal & 1/4#/sk Cello-Flake 522 sxs 50-50 POZ w/ 2% Gel & 3% KCl & 3% S.M. & 1/4#/sk Cello-Flake 20 bbl dye to sfc. CEMENT TOP AT: 7 80% to 7100 SET AT: 6290.63' KB TUBING SIZE/GRADE/WT: 2-7/8" 6.5ppf M-50 NO. OF JOINTS: 181 its TUBING ANCHOR: 5441.25' KB SEATING NIPPLE: 2-7/8" 1.1' TOTAL STRING LENGTH: EOT @ 5601.44' KB SN LANDED AT: 5537.68' KB Anchor @ 5441.25 SUCKER RODS PERFORATION RECORD POLISHED ROD: 1-1/2"x22' SUCKER RODS: 8-1" scrapered rods, 4-3/4" scrapered rods, 113-3/4" plain 12-23-99 5287'-5299' 4 JSPF 48 holes **‡** 5287'-5299' rods, 94-3/4" scrapered rods, 1-3/4" plain rod, 1-8', 6', 4', 2' ponies 12-23-99 5364'-5369" 4 JSPF 20 holes PUMP SIZE: Randy's 2-1/2 x 1-1/2 x 16' RHAC w/ SM plunger 5364'-5369' 12-23-99 5455'-5458' 4 JSPF 12 holes STROKE LENGTH: 76" 12-23-99 5468'-5470' 4 JSPF 8 holes PUMP SPEED, SPM: 4 12-23-99 5455-5458 5476'-5482' 4 JSPF 24 holes LOGS: DIGL, SP, GR, CAL, Neutron, Comp. Density 12-23-99 5484'-5490' 4 JSPF 24 holes 5468'-5470'



### Inland Resources Inc.

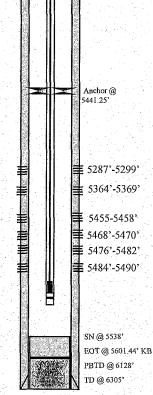
#### Monument Butte Federal #8-23

1787' FNL 535' FEL

SENE Section 23-T8S-R16E

Duchesne Co, Utah

API #43-013-32101; Lease #UTU-76560



## Monument Butte Federal #4-24

Spud Date: 2/19/00 Put on Production; 3/16/00 GL: 5371' KB: 6011'

#### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8" GRADE: J-55 WEIGHT: 24# LENGTH: 7 JTS (306') DEPTH LANDED: 297' KB HOLE SIZE: 12-1/4"

CEMENT DATA:

141 sxs Class "G"cmt w/ 2% CaCl2 &

1/4#/sk Cello-Flake (4 bbls to surface)

#### PRODUCTION CASING

CSG SIZE: 5-1/2" GRADE: J-55 WEIGHT: 17# LENGTH: 192 jts J-55 (5955')

HOLE SIZE: 7-7/8"

CEMENT DATA: 250 sxs Prem Lite II w/ 10% Gel & 3% KCl & .5% S.M. & 3#/sk CSE & 2#/sk Kol-Seal &

1/4#/sk Cello-Flake

400 sxs 50-50 POZ w/ 2% Gel & 3% KCl & 1/4#/sk Cello-Flake & 3% S.M. (20 bbl dye to sfc)

CEMENT TOP AT: 620

SET AT: 5950' KB

#### TUBING

SIZE/GRADE/WT: 2-7/8"6.5ppf LS NO. OF JOINTS: 175 jts (5714.68') TUBING ANCHOR: 5457' KB SEATING NIPPLE: 2-7/8" x 1.10" TOTAL STRING LENGTH: EOT @ 5585 KB

SN LANDED AT: 5521 KB

### SUCKER RODS

1-1/4" x 22' polished rod 4-1-1/2" weight rods "A" 10-3/4" scrapered rods "B" 111-3/4" plain rods "A" 94-3/4" scrapered rods "B" 1-8'& 4'& 6' x7-8" pony rods "B"

Randy's 2-1/2 x 1-1/2 x 15' RWAC pump w/ 12' diptube

Stroke Length: 74" Speed: 6 spm

#### FRAC JOB

3/14/00 5379'-5509'

Frac D sands: 115,000# 20/40 sand in 615 bbls Viking I-25 fluid. Perfs broke back @ 1550 psi @ 35 BPM. Treated @ avg press of 1700 psi w/avg rate of 36.2 BPM. ISIP 2680 psi, 5 min 1701 psi. RD BJ. Flowback D/C Sands on 12/64" chk for 3-1/2 hrs & died. Rec 135 BTF (est 22% of load). TIH w/pinned NC & tbg. Tag sand @ 5788'. Well flwd & tbg displaced add'l 31 BF on TIH. C/O sand to PBRD 5955'. Circ hole clean. Pull Eot to 5882'. SIFN w/est 459 BWTR

#### PERFORATION RECORD

Anchor @ 5457' KB

5379'-93'

**i** 5396'-5405' **5**506'-09'

SN @ 55521'KB

EOT @ 5585' KB

PBTD @ 5895'

TD @ 6011'

3/13/00	5506'-5509'	4 JSPF	12 holes
3/13/00	5396'-5405'	4 JSPF	36 holes
3/13/00	5379'-5393'	4 JSPF	12 holes
			1.



## Inland Resources Inc.

#### Monument Butte Federal #4-24

783' FNL 675' FWL

NWNW Section 24-T8S-R16E

Duchesne Co, Utah

API #43-013-32097; Lease #UTU-74868

## Monument Butte Federal #5-24

Spud Date: 12/7/99 Put on Production: 1/15/00 GL: 5426' KB: 5436'

#### Wellbore Diagram

FRAC JOB

1-11-00 5286'-5381'

1-10-00 5810'-5830'

Frac D sands: 52,906# 20/40 sand in 361 bbl Viking I-25 fluid. Perfs broke

pressure of 2000 psi w/avg, rate of 31.7 BPM. ISIP-2220 psi, 5 min.-2068 psi

Frac A sands: 33,387# 20/40 sand in 223

bbl Viking I-25 fluid. Perfs broke down

at 3040 psi. Treated at avg. pressure of 3700 psi w/ avg. rate of 27 bpm. W/6#

sand on perfs frac screened out. Est.

16,557# sand in formation, 16,830# in csg.

down at 2503 psi. Treated at avg.

#### SURFACE CASING

CSG SIZE: 8-5/8" GRADE: J-55 WEIGHT: 24# LENGTH: 7 JTS (306') DEPTH LANDED: 317.67' KB

HOLE SIZE: 12-1/4"

CEMENT DATA:

141 sxs Class "G" cmt w/ 2% CaCl2 &

1/4#/sk Cello-Flake (4 bbls to surface)

#### PRODUCTION CASING

CSG SIZE: 4-1/2" GRADE: J-55 and N-80 WEIGHT: 11.6 ppf

LENGTH: 73 jts N-80 and 73 jts J-55 (5982')

HOLE SIZE: 7-7/8'

CEMENT DATA: 370 sxs-Prem Lite II w/ 10% Gel & 3% KCl & .5% S.M. & 3#/sk CSE-& 2#/sk Kol-Seal & 1/4#/sk Cello-Flake

400 sxs 50-50 POZ w/ 2% Gel & 3% KCl & 1/4#/sk

Cello-Flake & 3% S.M. (20 bbl dye to sfc)

CEMENT TOP AT: 3290

SET AT: 5993.42' KB

#### TUBING.

SIZE/GRADE/WT: 2-3/8"4.7ppf LS NO. OF JOINTS: 185 jts (5714.68') TUBING ANCHOR: 5598.92' KB SEATING NIPPLE: 2-3/8" x 1.10"

TOTAL STRING LENGTH: EOT @ 5762.04' KB

SN LANDED AT: 5633.65' KB

#### SUCKER RODS

1-1/4" x 22' polished rod 89-3/4" scrapered rods "A" 121-3/4" plain rods "B" 10-3/4" scrapered rods "A" 4-1 1/2" weight rods "B" Axelson 2 x 1-1/2 x 16' RWAC pump w/ 12' diptube Stroke Length: 86" Speed: 4 spm

## PERFORATION RECORD

Anchor @ 5599' KB

**±** 5286'-5298'

5375'-5381'

5810'-5814' 主 5827'-5830'

SN @ 5633.65'KB

EOT @ 5762' KB

PBTD @ 5949'

TD @ 6000'

5286'-5298' 4 JSPF 1-11-00 48 holes 5375'-5381' 24 holes 1-11-00 4 JSPF 1-10-00 5810'-5814' 4 JSPF 16 holes 1-10-00 5827'-5830' 4 JSPF 12 holes



## Inland Resources Inc.

#### Monument Butte Federal #5-24

2003' FNL 690' FWL

SWNW Section 24-T8S-R16E

Duchesne Co, Utah

API #43-013-32099; Lease #UTU-74868

#### ATTACHMENT D

## **Drilling and Completion Reports**

This information has been requested as additional information to be included as part of the injection conversion application.



#### MB FED 1-23-8-16

NE/NE Section 23 - T8S - R16E Duchesne Co., UT API # 43-013-32093 Spud Dat 2/3/00 TD 5950'

Drlg Rig UNION #14

Report Date	2/4/00	Days Since Spud 1	Depth:	343	Footage	343'
Time		Operation				
8.00	HRS	MIRU UNION #14 & set equipment. Drill mo	ouse hole & rat hole.			
1.00	HRS	Drill 23' of 17-1/2" hole & set conductor pipe.	Spudded well @ 7:00	PM 2/3/00.		
1.00	HRS	NU & install airhead rubber				
5.50	HRS	Drill 12-1/4" hole to 343'				
1.50	HRS	Blow hole clear. TOH w/BHA				
1.00	HRS	ND cellar, pull conductor				
1.75	HRS	MU & RIH w/8-5/8" guide shoe, 7 jts 24# J-55	8-5/8" csg (305.60').	Landed @ 317' 1	KΒ	
0.50	HRS	Cement as follows: 20 bbls dye, 20 bbls gel, 1	41 sx "G" cement + 2%	% CaCl2 mixed @	) 15.8 ppg & 1.17	
		yield. Plug down @ 4:20AM 2/4/00. 5 bbls ce	ement to surface.			
0.50	HRS	WOC				

Daily Cost \$13,362 Cumulative Cost \$13,362

Report Date	2/5/00	Days Since Spud 2	Depth:	1200	Footage 857'
Time		Operation			
2.50	HRS	WOC			
5.50	HRS	NU BOP stack. Pressure test kelly. TII 1500 psi.	I w/choke manifold & BOP's	to 2000 psi. Press	test surf csg to
1.00	HRS	TIH w/bit #3 & BHA, blow well dry			
1.00	HRS	Drill cement, plug & shoe			
3.00	HRS	Drill 7-7/8" hole f/343-524'			
0.50	HRS	RS & survey: 1/4 degree @ 482'			ta de la composition de la composition Composition de la composition de la co
6.75	HRS	Drill 7-7/8" hole f/524-1015'			
0.50	HRS	Change airhead rubber			
0.50	HRS	RS & survey: 1/2 deg @ 975'			
2.75	HRS	Drill 7-7/8" hole f/1015 to 1200'			

Daily Cost \$13,357 Cumulative Cost \$26,719

Report Date 2/6/00 Days Since Spud 3 Depth: 2331 Footage 1131'



## **DAILY DRILLING REPORT**

Time		Operation
2.25	HRS	Drill 7-7/8" hole to 1373'
1.00	HRS	Rig service
1.75	HRS	Drill 7-7/8" hole to 1497'
0.25	HRS	Survey
4.50	HRS	Drill 7-7/8" hole to 1775'
0.75	HRS	Rig service
4.50	HRS	Drill 7-7/8" hole to 2053'
0.50	HRS	Survey
0.75	HRS	Drill 7-7/8" hole to 2105'
3.00	HRS	TOH for bit failure. TIH w/bit #4 & BHA
0.75	HRS	Wash 20' to btm
4.00	HRS	Drill 7-7/8" hole to 2331'
Daily Co	ost \$	13,651 Cumulative Cost \$40,370

Report Date 2/	/7/00	Days Since Spud	4	Depth:	3783	Footage	1452
Time	C	<b>Operation</b>					
2.00 I	HRS D	Orill 7-7/8" hole to 2548'					
1.50 I	HRS R	ig service & survey					
6.25	HRS D	Orill 7-7/8" hole to 3040'					
0.50 I	HRS R	ig service & survey					
4.25 I	HRS D	orill 7-7/8" hole to 3381'					
1.00 I	HRS W	Vork kellytight hole					
4 00.8	HRS D	Fill 7-7/8" hole to 3783'					
0.50 I	HRS B	low hole & load w/water					

Daily Cost \$16,872 Cumulative Cost \$57,242

Report Date	2/8/00	Days Since Spud 5 Dept	h: 4475	Footage 692'
Time		Operation		
0.75	HRS	C&C hole w/water		
4.50	HRS	TOH for fluid bit & MM. TIH w/bit #5, MM & BHA		
1.75	HRS	Load hole, wash to btm		
6.25	HRS	Drill 7-7/8" hole to 4023'		
0.50	HRS	Rig service & survey		
6.25	HRS	Drill 7-7/8" hole to 4328'		
0.25	HRS	Rig service		
2.75	HRS	Drill 7-7/8" hole to 4475'	게 하면 없는 사람들이 함 부모임하다 사람들이 하는	

Daily Cost \$10,210 Cumulative Cost \$67,452

Report Date	- 2/9/00 l	Davs Since Spud	6		Depth:	5400		Footage	925'
	and the second of the second o				 	しゅうかんきょう 大田 エココー	1.5		



## DAILY DRILLING REPORT

Time	Operation
2.00 HRS	Drill 7-7/8" hole to 4543'
1.00 HRS	Rig service & survey
8.00 HRS	Drill 7-7/8" hole to 4883'
0.25 HRS	Rig service
5.00 HRS	Drill 7-7/8" hole to 5097'
0.50 HRS	Rig service & survey
7.00 HRS	Drill 7-7/8" hole to 5400'

Daily Cost \$10,969 Cumulative Cost \$78,421

Report Date	2/10/00	0 Days Since Spud 7 Depth: 5966 Footage	566'
Time		Operation	
2.00	HRS	Drill 7-7/8" hole to 5470'	
1.00	HRS	Rig service	
7.25	HRS	Drill 7-7/8" hole to 5748'	
0.25	HRS	Rig service	
5.75	HRS	Drill 7-7/8" hole to 5950'. TD well @ 10:15PM 2/9/00.	
1.75	HRS	C&C hole, stand back kelly, & survey (2 deg @ 5950')	
6.00	HRS	LD DS, DC's & BHA. RU loggers & run Dual Induction/Guard Log/SP Compensated Density Neutron Gamma Ray/Caliper Log	

Daily Cost \$15,642 Cumulative Cost \$94,063

Report D	ate	2/11/00	Days Since Spud 8 Depth: 5966 Footage 0'
	Time		Operation
	5.00	HRS	RU Loggers & run Dual induction/Guard Log/SP Compensated Density Neutron Gamma Ray/Caliper log
	3.50	HRS	PU & MU 4-1/2" guide shoe, 1 jt., FC, 136 jts 4-1/2" 11.6# J-55 csg @ 5921.8
	2.50	HRS	C&C hole, RU BJ. Cement as follows: 20 bbls dye, 20 bbls Mud Clean II, 350 sx Prem Lite II w/10% gel & 3% KCL mixed @ 14.4 ppg, >3.43 yield; 550 sx 50/50 Poz w/2% gel & 3% KCl mixed @ 14.4 ppg >1.24 yield.
	1.50	HRS	Plug down @ 5:03PM 2/10/00. ND BOP's, drop slips w/65K# string weight. RD BJ. Clean & dump pits.
			Release rig @ 10:00PM 2/10/00. ***FINAL REPORT*** *****FINAL REPORT****

Daily Cost \$50,373 Cumulative Cost 144,436



#### COMPLETION REPORT

MB FED 1-23-8-16

NE/NE Section 23 - T8S - R16E

Duchesne Co., UT

API # 43-013-2093

Spud Dat

2/3/00

TD

Completion or Workover Rig

**KES #57** 

Completing - TOH w/tba

Report Date 2/20/00 Day

Date Work Performed 2/19/00

MIRU KES #57. Pressure test csg & head to 2,000 psi for 30 min. Install 2-3/8" ram blocks in BOP's. NU frac head. BOP's & tbg equipment. PU & MU 3-3/4" bit & 4-1/2" csg scraper. Tally & drift 2-3/8" tbg off the rack. Total of 191 its tbg, tag PBTD @ 5879.16'. TOH w/2 jts tbg. EOT 5838'. SWIFN.

Daily Cost \$2,065 Cumulative Cost \$2,065

Report Date 2/22/00 . Dav 2 Completing - Frac & Perf

Date Work Performed 2/21/00

RU swab equipment. Swab FL down to 4900'. Rec 68 BTF. TOH w/tbg. LD bit & scraper. RU Schlumberger & perf C/B Sands @ 5446-49', 5469-74' & 5614-21' w/4 JSPF. SIFN.

Daily Cost \$24,705 Cumulative Cost \$26,770

Report Date 2/23/00 Day 3

Completing - Swabbing

Date Work Performed 2/22/00

Bleed gas off csg. NU BJ Services ram head flange to BOP. RU BJ to flac C/B Sandsould le filled w/68 bbls pad fluid. Perfs broke dwn @ 2880 psi. Treated @ avg press of 3200 psi w/avg rate of 28 BPM. With sand on perfs, pressure increased rapidly. No rate increase was available. Sand was cut @ blender @ 6 ppg. Flushed 1470 gals before max press was achieved & screened out w/5# sand on perfs. Pumped 45,516# 20/40 sand in 361 bbls Viking I-25 fluid & 16 bbls fluid ahead of frac. Est 36,451# sand in perfs, 9,065# sand left in csg. RD BJ. Discovered malfunction w/BOP. Flow back est'd 5 BTF. TIH w/NC & tbg. Flow & displace add'l 18 BTF on TIH. Stage out sand laden fluid @ 3000'. Tag solid sand @ 5441'. C/O sand to PBTD @ 5883'. Circ hole clean. No fluid loss. TOH w/tbg & NC. RU Schlumberger & set 4-1/2" "HE" RBP @ 5400'. RD WLT. ND BOP (send for repairs). SIFN w/est 354 BWTR. STIM DETAIL:

4000 gals of pad

1000 gals w/1-5 ppg of 20/40 sand

8702 gals w/5-6 ppg of 20/40 sand (of 10,000 gal stage)

Flush w/1470 gals of slickwater (2074 gals short of top perf)

\*\*\*Screened out w/5# sand on perfs; est 36,451# sand in formation & 9,065# sand left in csg

Max TP 4200, Avg TP 3200; Max Rate 29 BPM, Avg Rate 28 BPM

Total fluid pumped 361 bbls, total prop pmpd 45,516#

Daily Cost \$26,745 Cumulative Cost \$53,515

Report Date 2/24/00 Day 4 Completing - Frac

Date Work Performed 2/23/00

NU Cameron 6" 5M BOP. Fill csg w/10 BW. Press test BOP seals to 3500 psi. TIH w/NC & tbg to 5362'. Displaced 10 BW on TIH. Swab FL dwn to 4750'. Rec 66 BTF. TOH w/tbg & NC. RU Schlumberger & perf "D" sands 5266-74', 5277-82', 5286-88' & 5339-5364' w/2 JSPF @ 180 deg phasing. RD WLT. TIH w/NC & tbg 5362'. RU swab equip. IFL @ 2900'. Made 4 swab runs, rec'd 19 BTF (est 11 BO, 8 BW). FOC @ 60% w/strong gas. FFL @ 2900'. TOH w/tbg & NC. SIFN w/est 280 BWTR.



#### COMPLETION REPORT

Daily Cost \$5,354 Cumulative Cost \$58,869

Report Date 2/25/00 Day 5

Completing - Trip prod tba

Date Work Performed 2/24/00

SICP 650 psi (leave on well). Rt BJ Services & frac "D" sands w/138.783# 20/40 sd in 696 bbls Viking I-25 fluid. Hole filled w/22 bbls pad fluid (est 1500' entry overnight). Perfs broke back @ 2750 psi @ 27 BPM. Had some visible breaks. Treat @ avg press of 2300 psi w/avg rate of 34 BPM. ISIP 2600 psi, 5 min 2152 psi. RD BJ. Flowback "D" sand frac on 12/64" choke for 3 hrs & died. Rec 98 BTF (est 14% of "D" sd frac load) w/tr oil & gas @ end. Well flwg small amt. TIH w/RH & tbg. Circ out oil & gas @ 3000'. Flow & displace add'l 24 bbls on TIH. Tag sd @ 5347'. Rev circ out sd to RBP @ 5400'. Lost est 55 BW during circ. Release plug. TOH w/tbg. LD plug. TIH w/NC & tbg. Tag sd @ 5746'. Pull EOT to 5580'. SIFN w/est 909 BWTR.

STIM DETAIL:
4000 gals of pad
1000 ga;s w/1-5 PPG 20/40 sand
12,000 gals w/5-7ppg of 20/40 sand
8882 gals w/7-9 ppg of 20/40 sand
Flush w/3360 gals of slickwater
Max TP 3374, Avg TP 2300, ISIP 2600, 5 min 2152
Max Rate 35 BPM, Avg Rate 34 BPM
Total fluid pmpd: 696 bbls; total prop pmpd: 138,783#

Daily Cost \$37,533 Cumulative Cost \$96,402

Report Date 2/26/00 Day 6

Completing - Flow Test

Date Work Performed 2/25/00

TIH w/2 jts tbg. EOT @ 5644'. RU swab equip. IFL @ surface. Made 2 swab runs, rec'd 38 BW. Well began flowing. Regulate flow to 1/2 to 1 BPM fluid w/strong gas. Heavy sand in early samples but cleaned up after flwg approx 100 BF. Rec est 277 BTF today (184 BW & 93 BO). RU line to production tank. Begin flwg well to tanks @ 2:30PM w/18 BPH last 2 hrs & 80% oil cut. Est 725 BWTR.

Daily Cost \$2,018 Cumulative Cost \$98,420

Report Date 2/27/00 Day 7

Completing - Flow Test

Date Work Performed 2/26/00

SICP 1000 psi. Well flwd 311 BO & no water last 14 hrs (22 BPH avg) @ 225 FTP. Switch production through treater & leave well flwg through weekend. Est 725 BWTR.

Daily Cost \$330 Cumulative Cost \$98,750

Report Date 2/29/00 Day 8

Completing - Flow Test

Date Work Performed 2/28/00

SICP 1050 psi. Well flwd 429 BO & 41 BW last 20 hrs (23.5 BPH avg) @ 450 FTP. Est 455 mcfd gas sales/day through 12/64" choke. LD out of the derrick 8 jts tbg. Replace rig slips with rentals. Lock pipe rams shut. RD service rig & move off locn.

Daily Cost \$1,319 Cumulative Cost 100,069



#### COMPLETION REPORT

Report Date

3/22/00

Day 9

Completing - Run Prod

Date Work Performed 3/21/00

MIRU Basin #1. Pump 40 BC dwn tbg followed w/100 BW @ 250 degrees & RU wax cutter. Cut wax to 5200' & RD wax truck. RU hot oil truck & flush tbg w/25 BW. RU tbg equipment & TIH w/1 jt tbg, tag sand @ 5648'. RU pump to circ, pumped 140 BW to brk circ. C/O to 5679', lost 233 BW to well. RD pump & LD 2 jts tbg & POOH w/183 jts tbg. ND BOP & frac head. NU production wellhead & NU BOP. TIH w/170 jts tbg, 4-1/2" TA, 2 jts tbg, 2-3/8" SN, 1 perf jt, 2 jts tbg, 2-3/8" bull plug & collar. LD 7 jts tbg & ND BOP. Try to set TA, but TA would not set. NU BOP & drain up pump lines. SWIFN. EWTR 358 bbls ECTR 40 bbls.

Daily Cost \$3,900 Cumulative Cost 103,969

Report Date 3/23/

3/23/00 Day 10

Completing - Run Prod

Date Work Performed 3/22/00

Blow well down. RU floor and tongs, try to set TA. TA would not set, POOH w/tbg & TA. TA was stuck with sand, cleaned it up & TIH w/same tbg detail. ND BOP & work TA w/tongs, finally got TA to set @ 5248' in 12,000# tenstion. NU wellhead & hook up flowlines. Had to pump 25 BW down tbg to kill well. RU rod equipment & TIH w/Axelson 20-150-16' pump w/dip tube, 4 wt bars, 4 - 3/4" guided rods, 109 - 3/4" slick rods, 96 - 3/4" guided rods, 1 - 3/4" slick rod, 1 - 8' pony rod, 1 - 6' pony rod, 1 - 4' pony rod, 1 - 2' pony rod & 1 - 1-1/4" x 22' polish rod. Fill tbg w/4 BW and stroke pump up to 800 psi. Hang head and space out pump. Start well pumping @ 5:00PM w/6 SPM & 74" SL. EWTR 387 bbls, ECTR 40 bbls.

Daily Cost \$4,000 Cumulative Cost 107,969

#### ATTACHMENT E

#### NAME AND DEPTH OF USDWs

For Class II wells, submit geologic name and depth to bottom of all underground sources of drinking water, which may be affected by the injection.

Due to the location and depth of the well, it will not affect any source of drinking water. See Attachments E-1 through E-4, showing pertinent water analyses.

- Attachment E-1 Water analysis of the primary fluid to be injected (Unichem Water Analysis of the Johnson Water District, taken January 27, 2000)
- Attachment E-2 Water Analysis of the secondary fluid to be injected (Unichem Water Analysis of produced water commingled with Johnson Water, taken August 25, 1999 at the Monument Butte Injection Facility)
- Attachment E-3 Analysis of formation water taken April 26, 2000 from the Monument Butte Federal 1-23-8-16
- Attachment E-4 Analysis of the compatibility of the injected and formation water, done April 26, 2000.

435 722 5727

ATTACHMENT E-1

A Division of BJ Services

P.O. Box 217 Roosevelt, Utah 84066

Office (435) 722-5066 Fax (435) 722-5727

P. 003

## WATER ANALYSIS REPORT

Company NLAND PRODU	ICTION Address		Date	1-27-00
Source JOHNSON	Date Sample	d <u>1-26-00</u>	Analysis No	
1: PH	Analysis 7.4	mg/l(ppm)	**************************************	/leg/i
2. H <sub>2</sub> S (Qualitative)	0.5			
3. Specific Gravity	1.001			
4. Distolved Solids		600		
5. Alkalinity (CaCO <sub>3</sub> )	co,	0	÷30 <u>0</u>	co,
6. Bicarbonate (HCO <sub>3</sub> )	HCO,	240	_ ÷614	HCO,
7. Hydroxyl (OH)	ОН	0	_ ÷170	он
8. Chlorides (CI)	CI	71	_ ÷ 35.52	CI
8. Sulfates (SO <sub>4</sub> )	so,	130	+ 483	SO,
10. Calcium (Ca)	Ca	72	_ ÷ 204	Ca
11. Magnesium (Mg)	MG	41	_ ÷ 12.23	Mg
12. Total Hardness (CaCO.)		350		
13. Total Iron (Fe)		0.6	_	
14. Manganese			_	
15. Phosphate Residuals			<del></del>	

## PROBABLE MINERAL COMPOSITION

	Compound	Equiv. Wt. 2	Meg/1	= Mg/l
4 Ca 4 HCOs 4	C#(HCO3)2	81.04	4	324
4 Ca HCO1	Compound State 2			
3 Mg	CaCl <sub>2</sub>	55,50		
	Mg(HCO <sub>2</sub> ) <sub>2</sub>	73.17		
2 Na — CI 2	Mgso.	60.19		181
	MgCl <sub>2</sub>	47.62		_
Saturation Values Distilled Water 20°C	NaHCO:	64.00		
	Na <sub>2</sub> SO <sub>4</sub>	71.03		<u> </u>
CaSO <sub>4</sub> • 2H <sub>2</sub> O 2,090 Mg/l	NaCl	58.48	_2	117
REMARKS				
Recieved Time Jan 27 5:28PM				

<sup>\*</sup>Milli equivalents per liter

435 722 5727

## <u>UNICHEM</u>

A Division of BJ Services

P.O. Box 217 Roosevell, Utah 84088 ATTACHMENT E-2

Office (435) 722-5066 Fax (435) 722-5727

## WATER ANALYSIS REPORT

Company INLAND PRODUCTION	Address		1.54	8-2	5-99	
Source MBIF	Date Sampled _	8-25-99	_ Analysis	No	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	
A	nalysis	mg/l(ppm)		•	leg/l	
1. PH	8.0					
2. H <sub>2</sub> S (Qualitative)	<u> </u>					
3. Specific Gravity	1.001	£DO				
4. Dissolved Solids	_	688		Λ		
5. Alkalinity (CaCO <sub>3</sub> )	CO <sub>3</sub> _	0	÷ 30	0_		co³
6. Blcarbonate (HCO <sub>3</sub> )	HCO3 _	430	. + 61 <u> </u>	<u>/</u>	<del></del>	_HCO,
7. Hydroxyl (OH)	он _	0	. + 17	0	·	_ он
8. Chlorides (Ci)	CI _	71	. ÷ 35.5		· · · · · ·	Cl
9. Sulfates (SO <sub>4</sub> )	so, _	0	. ÷48			so,
10. Calclum (Ca)	Ca _	40	. ÷ 20	1		Ca
11. Magneslum (Mg)	MG _	12	÷ 12.2			Mg
12. Total Hardness (CaCO <sub>3</sub> )	·	150				
13. Total Iron (Fe)	-	13	•			
14. Manganese	_	0	•			:. 
15. Phosphate Residuals	_		• • •	•		

<sup>\*</sup>Mill aquivalents per liter

## PROBABLE MINERAL COMPOSITION

	· · · · · · · · · · · · · · · · · · ·	Compound	Edillarar	V III NAT	****
	7	Cα(HCO1)a	81.04		162
Ca 4	HCO1	CaSO	68.07		
1 40	şo, 0	CaClı	<b>55.60</b>		73
Mg		Mg(HCO <sub>3</sub> ) <sub>2</sub>	73.17		
6 Na		MgSO.	60.18		
Saturation Values	Distilled Water 20°C	MgCli	47.62 84.00	4	336
CaCO <sub>3</sub>	13 Mg/l	NaHCO:	71.03		
Ca5O4 · 2H2O	2,080 Mg/l	Ne <sub>2</sub> SO <sub>4</sub>	58.4 <b>6</b>	2	117
MgCO <sub>3</sub>	103 Mg/l	Neci			
REMARKS					

435 722 5727

## **UNICHEM**

A Division of BJ Services

P.O. Box 217 Roosevelt, Utah 84066 ATTACHMENT E-3

Office (435) 722-5066 Fax (435) 722-5727

## WATER ANALYSIS REPORT

Company <u>Inlend Production</u>	Company	Address			Date _	4/26/00
Source Monument Butte F	cd 1-23	Date Sampled	4/26/00	Analysia	No	
!	Ane	ilyela	mg/l(ppm)		•м	eg/l
1. PH	9.2					- 😅 .
2. H <sub>2</sub> 5 (Qualitative)	1.5					
3. Specific Gravity	1.008					
4. Disselved Solids			<u>9.481</u>			•
5. Alkalihity (CaCO <sub>3</sub> )		CO <sub>3</sub>	0	÷ 30	0	co
6. Bicarponate (HCO <sub>3</sub> )		HCO,	1,037	÷61	17	HCO
7. Hydroxyl (OH)		он	0	+ 01 + 17	0	OH
8. Chlorides (CI)		Ci	4,300	÷ 35.5	120	C
9. Sulfates (SO,)		so,	0	+ 48	0	SO,
10. Calcium (Ca)		Ca	16	_ ÷20	1	Ca
11. Magnesium (Mg)		MG	0	÷ 12.2		
12. Total Hardness (CaCO <sub>3</sub> )			40			IAIA
13. Total Iron (Fe)				<del></del>		
14. Manganese			Δ	<del></del>		
15. Phosphate Residuals		<del></del>		<del></del>		
				~		

## 'Milli equivalents per liter

## PROBABLE MINERAL COMPOSITION

		Сотроила	Equiy.Wr.	X Meg/I	= Ma()
1 ca -	HCO <sub>3</sub> 17	Ca(HCO <sub>1</sub> );	81.04	_1	81
		CaSO4	68.07		
0 Mg	so. 0	CaCt <sub>2</sub>	55.50		
136 Na	) CI 120	Mg(HCO <sub>3</sub> ) <sub>2</sub>	73.17		
		MgSO.	60.19		
Saturation Values	Distilled Water 20°C	M <sub>B</sub> Cl <sub>2</sub>	47.62	-	
CaÇO <sub>3</sub>	13 Mg/l	NaHCO <sub>3</sub>	64,00	<u>—16</u>	1,344
Са\$О₄ - 2Н₂О	2,090 Mg/l	Ne <sub>2</sub> SO <sub>4</sub>	71.03		i
Mg¢O₃	103 Mg/J	NaCi	58.46	120	7 <u>,015</u>
MARKS					
<del></del>		· · · · · · · · · · · · · · · · · · ·			

Recieved Time-Apr.27.-11:59AM

ATTACHMENT E-4

#### AQUAMIX SCALING PREDICTIONS

COMPANY: INLAND PRODUCTION CO

4-26-2000

LOCATION: SYSTEM:

WATER DESCRIPTION:	JOHNSON WATER	MON BUTTE FED 1-23
P-ALK AS PPM CaCO3	0	0 .
M-ALK AS PPM CaCO3	393	1701
SULFATE AS PPM SO4	130	0
CHLORIDE AS PPM Cl	71	4300
HARDNESS AS PPM CaCO3	0	0
CALCIUM AS PPM CaCO3	180	40
Magnesium as PPM CaCO3	169	0
SODIUM AS PPM Na	46	3128
BARIUM AS PPM Ba	0	0
strontium as PPM Sr	0	0
CONDUCTIVITY	0	٥
TOTAL DISSOLVED SOLIDS	600	8481
TEMP (DEG-F)	100	100
SY\$TEM PH	7.4	9.2

WATER COMPATIBILITY CALCULATIONS JOHNSON WATER AND MON BUTTE FED 1-2 CONDITIONS: pH=8.3. TEMPERATURE ESTIMATED FROM COMPONENT WATERS.

#### WATER ONE IS JOHNSON WATER

IV SALLEY	STIFF DAVIS CaCO3 INDEX	lbs/1000 BBL EXCESS CaCO3	mg/l Bas04 IN EXCESS OF SATURATION	mg/l SrO4 IN EXCESS OF SATURATION	mg/l Gypsum IN EXCESS OF SATURATION
			^	0	n
100	1.23	56	0	0	0
90 i	1.28	53	Ü	Ü	U
80 !	1.29	49	0	0	O
70	1.29	45	0	0	0
60	1.27	40	٥	0	0
50	1.24	36	0	0	0
1	1,19	31	0	۵	0
40	1.12	26	Ō	0	Ο .
30			n	n	٥
20	1.04	21	0	0	Ô
10	.94	16	Ü	U	5
0	.80	11	0	Ü	U

#### ATTACHMENT G

#### **GEOLOGICAL DATA ON INJECTION AND CONFINING ZONES**

For Class II wells, submit appropriate geological data on the injection zone and confining zones, including lithologic description, geological name, thickness, and depth and fracture pressure.

The proposed injection well produced from and will inject into the Green River formation. Water is sourced from the Johnson Water District and injected or is commingled with produced water at the Monument Butte Injection Facility and processed for individual well injection.

The injection zones are in the Green River formation, bounded by the Garden Gulch marker and the Basal Carbonate Marker. The Green River is composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shales. At the Monument Butte Federal #1-23 location, the proposed injection zone is from 5266' – 5621'. The porous and permeable lenticular sandstones vary in thickness from 0' – 25' and are confined to the Monument Butte area by low porosity calcareous shales and carbonates.

The confining strata directly above and below the injection zones are the top of the Garden Gulch formation and the Basal Carbonate, in the Monument Butte Federal #1-23 well. The strata confining the injection zone are composed of tight, moderately calcareous, sandy lacustrine shales. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

The fracture pressure of the Monument Butte Federal #1-23 will be determined upon testing. The minimum fracture gradient calculates at 0.832 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be conducted upon injection and periodically thereafter to determine the actual fracture pressure. As the fracture pressure increases, we may elect to increase the injection pressure, but will not exceed the maximum of 1894 psig.

#### Communication Prevention:

The injection system will be equipped with high and low pressure shut-down devices, which will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

Attachment G-1 Formation Tops

Attachment G-2 Proposed Maximum Injection Pressure

Attachment G-3 Fracture Report Dated 2/22/00

Attachment G-4 Fracture Report Dated 2/24/00

#### **ATTACHMENT G-1**

#### FORMATION TOPS

#### **Monument Butte Federal #1-23**

<u>FORMATION</u>	DEPTH (ft)
Green River	2140'
Garden Gulch	4218'
Point Three Marker	4845'
X Marker	5087'
Y-Marker	5120'
Douglas Creek	5240'
Bicarbonate Marker	5522'
B-Limestone	5666'
Castle Peak Limestone	NDE
Total Depth	5966'

#### Attachment "G"- 2

# Monument Butte Federal #1-23-8-16 Proposed Maximum Injection Pressure

Frac In		Avg. Depth	ISIP	Calculated Frac Gradient		
Тор	<b>Bottom</b>	(feet)	(psi)	(psi/ft)	Pmax	
4771	4950	4861	1940	0.832	1894	<b>←</b>
5058	5281	5170	2150	0.849	2093	
				Minimum	1894	

Calculation of Maximum Surface Injection Pressure
Pmax = (Frac Grad -(0.433\*1.005)) x Depth of Top Perf
where pressure gradient for the fresh water is .433 psi/ft and
specific gravity of the injected water is 1.005.

Frac Gradient = (ISIP +(0.433\*Avg. Depth))/Avg. Depth





MB FED 1-23-8-16

NE/NE Section 23 - T8S - R16E Duchesne Co., UT API # 43-013-2093

Spud Dat

2/3/00

TD

Completion or Workover Rig

KES #57

Report Date 2/20/00 Day 1

Completing - TOH w/tbg

Date Work Performed 2/19/00

MIRU KES #57. Pressure test csg & head to 2,000 psi for 30 min. Install 2-3/8" ram blocks in BOP's. NU frac head, BOP's & tbg equipment. PU & MU 3-3/4" bit & 4-1/2" csg scraper. Tally & drift 2-3/8" tbg off the rack. Total of 191 jts tbg, tag PBTD @ 5879.16'. TOH w/2 jts tbg. EOT 5838'. SWIFN.

Daily Cost \$2,065 Cumulative Cost \$2,065

Report Date 2/22/00 Day 2

Completing - Frac & Perf

Date Work Performed 2/21/00

RU swab equipment. Swab FL down to 4900'. Rec 68 BTF. TOH w/tbg. LD bit & scraper. RU Schlumberger & perf C/B Sands @ 5446-49', 5469-74' & 5614-21' w/4 JSPF. SIFN.

Daily Cost \$24,705 Cumulative Cost \$26,770

Report Date 2/23/00 Day 3

Completing - Swabbing

Date Work Performed 2/22/00

Bleed gas off csg. NU BJ Services ram head flange to BOP: RU BJ to flac C/B Sands Hole filled w/68 bbls pad fluid. Perfs broke dwn @ 2880 psi. Treated @ avg press of 3200 psi w/avg rate of 28 BPM. With sand on perfs, pressure increased rapidly. No rate increase was available. Sand was cut @ blender @ 6 ppg. Flushed 1470 gals before max press was achieved & screened out w/5# sand on perfs. Pumped 45,516# 20/40 sand in 361 bbls Viking I-25 fluid & 16 bbls fluid ahead of frac. Est 36,451# sand in perfs, 9,065# sand left in csg. RD BJ. Discovered malfunction w/BOP. Flow back est'd 5 BTF. TIH w/NC & tbg. Flow & displace add'l 18 BTF on TIH. Stage out sand laden fluid @ 3000'. Tag solid sand @ 5441'. C/O sand to PBTD @ 5883'. Circ hole clean. No fluid loss. TOH w/tbg & NC. RU Schlumberger & set 4-1/2" "HE" RBP @ 5400'. RD WLT. ND BOP (send for repairs). SIFN w/est 354 BWTR.

4000 gals of pad

1000 gals w/1-5 ppg of 20/40 sand

8702 gals w/5-6 ppg of 20/40 sand (of 10,000 gal stage)

Flush w/1470 gals of slickwater (2074 gals short of top perf)

\*\*\*Screened out w/5# sand on perfs; est 36,451# sand in formation & 9,065# sand left in csg

Max TP 4200, Avg TP 3200; Max Rate 29 BPM, Avg Rate 28 BPM

Total fluid pumped 361 bbls, total prop pmpd 45,516#

Daily Cost \$26,745 Cumulative Cost \$53,515

Report Date 2/24/00 Day 4

Completing - Frac

Date Work Performed 2/23/00

NU Cameron 6" 5M BOP. Fill csg w/10 BW. Press test BOP seals to 3500 psi. TIH w/NC & tbg to 5362'. Displaced 10 BW on TIH. Swab FL dwn to 4750'. Rec 66 BTF. TOH w/tbg & NC. RU Schlumberger & perf "D" sands 5266-74', 5277-82', 5286-88' & 5339-5364' w/2 JSPF @ 180 deg phasing. RD WLT. TIH w/NC & tbg 5362'. RU swab equip. IFL @ 2900'. Made 4 swab runs, rec'd 19 BTF (est 11 BO, 8 BW). FOC @ 60% w/strong gas. FFL @ 2900'. TOH w/tbg & NC. SIFN w/est 280 BWTR.



#### COMPLETION REPORT

Daily Cost \$5,354 Cumulative Cost \$58,869

Report Date 2/25/00 Day 5

Completing - Trip prod tbg

Date Work Performed 2/24/00

SICP 650 psi (leave on well). Rt BJ Services & frac "D" sands w/138,783# 20/40 sd in 696 bbls Viking I-25 fluid. Hole filled w/22 bbls pad fluid (est 1500' entry overnight). Perfs broke back @ 2750 psi @ 27 BPM. Had some visible breaks. Treat @ avg press of 2300 psi w/avg rate of 34 BPM. ISIP 2600 psi, 5 min 2152 psi. RD BJ. Flowback "D" sand frac on 12/64" choke for 3 hrs & died. Rec 98 BTF (est 14% of "D" sd frac load) w/tr oil & gas @ end. Well flwg small amt. TIH w/RH & tbg. Circ out oil & gas @ 3000'. Flow & displace add'l 24 bbls on TIH. Tag sd @ 5347'. Rev circ out sd to RBP @ 5400'. Lost est 55 BW during circ. Release plug. TOH w/tbg. LD plug. TIH w/NC & tbg. Tag sd @ 5746'. Pull EOT to 5580'. SIFN w/est 909 BWTR.

STIM DETAIL:
4000 gals of pad
1000 gals w/1-5 PPG 20/40 sand
12,000 gals w/5-7ppg of 20/40 sand
8882 gals w/7-9 ppg of 20/40 sand
Flush w/3360 gals of slickwater
Max TP 3374, Avg TP 2300, ISIP 2600, 5 min 2152

Max Data 26 DDM Ave Data 24 DDM

Max Rate 35 BPM, Avg Rate 34 BPM

Total fluid pmpd: 696 bbls; total prop pmpd: 138,783#

Daily Cost \$37,533 Cumulative Cost \$96,402

Report Date 2/26/00 Day 6

Completing - Flow Test

Date Work Performed 2/25/00

TIH w/2 jts tbg. EOT @ 5644'. RU swab equip. IFL @ surface. Made 2 swab runs, rec'd 38 BW. Well began flowing. Regulate flow to 1/2 to 1 BPM fluid w/strong gas. Heavy sand in early samples but cleaned up after flwg approx 100 BF. Rec est 277 BTF today (184 BW & 93 BO). RU line to production tank. Begin flwg well to tanks @ 2:30PM w/18 BPH last 2 hrs & 80% oil cut. Est 725 BWTR.

Daily Cost \$2,018 Cumulative Cost \$98,420

Report Date 2/27/00 Day 7

Completing - Flow Test

Date Work Performed 2/26/00

SICP 1000 psi. Well flwd 311 BO & no water last 14 hrs (22 BPH avg) @ 225 FTP. Switch production through treater & leave well flwg through weekend. Est 725 BWTR.

Daily Cost \$330 Cumulative Cost \$98,750

Report Date 2/29/00 Day 8

Completing - Flow Test

Date Work Performed 2/28/00

SICP 1050 psi. Well flwd 429 BO & 41 BW last 20 hrs (23.5 BPH avg) @ 450 FTP. Est 455 mcfd gas sales/day through 12/64" choke. LD out of the derrick 8 jts tbg. Replace rig slips with rentals. Lock pipe rams shut. RD service rig & move off locn.

Daily Cost \$1,319 Cumulative Cost 100,069

#### **ATTACHMENT H**

#### **OPERATING DATA**

Submit the following proposed operating data for each well (including all those to be covered by area permits): (1) average and maximum daily rate and volume of the fluids to be injected; (2) average and maximum injection pressure; (3) nature of annulus fluid; and (4) for Class II wells, source and analysis of the physical and chemical characteristics of the injection fluid.

- 1. Estimated average daily rate is 300 BPD, and the estimated maximum daily rate is 500 BPD.
- 2. The average and maximum surface pressure will be determined upon testing.
- 3. Fresh water treated with scale inhibitor, oxygen scavenger, biocide (behind packer fluid).
- 4. The injected fluid is primarily culinary water from the Johnson Water District, in secondary cases the injected fluid will be culinary water from the Johnson Water District commingled with produced water. (See Attachments E-1through E-4 for analysis).

#### **ATTACHMENT M**

#### **CONSTRUCTION DETAILS**

Submit schematic or other appropriate drawings of the surface and subsurface construction details of the well.

Attachment M-1 Wellbore Diagram of Monument Butte Federal #1-23

Attachment M-2 Site Facility Diagram of Monument Butte Federal #1-23

#### Monument Butte Federal #1-23

#### ATTACHMENT M-1

Spud Date: 2/03/00 Put on Production: 2/25/00 GL: 5341' KB: 5351'

#### SURFACE CASING

CSG SIZE: 8-5/8" GRADE: J-55 WEIGHT: 24# LENGTH: 7 JTS (305.6')

DEPTH LANDED: 317.45'

HOLE SIZE: 12-1/4"

CEMENT DATA: 145 sxs Class "G"cmt w/ 2% CaCl2 and

1/4#/sk Cello-Flake (5 bbls to surface)

#### PRODUCTION CASING

CSG SIZE: 4-1/2" GRADE: J-55 WEIGHT: 11.6# LENGTH: 137 jts (5910') HOLE SIZE: 7-7/8"

CEMENT DATA: 350 sxs Prem Lite II w/ 10% Gel & 3% KCl

550 sxs 50-50 POZ w/ 2% Gel & 3% KCl

CEMENT TOP AT: 396' per CBL

SET AT: 5921.76' KB

#### **TUBING**

SIZE/GRADE/WT: 2-3/8", "LS", 4.7 ppf

NO. OF JOINTS: 175 jts

PACKER: 5153' KB

SEATING NIPPLE: 2-3/8"

TOTAL STRING LENGTH: EOT @ 5405' KB

SN LANDED AT: 5311' KB

Proposed Injection Well Wellbore Diagram Initial Production: 156 STBOPD, 100 MCFD, 0 STBWPD

#### FRAC JOB

2-22-00 5446'-5621'

Frac C/B sands: 45,516# 20/40 sand in 325 bbl Viking I-25 fluid. Perfs broke down at 2880 psi. Treated at avg. pressure of 3200 psi w/ avg, rate of 28 BPM. Screened out.

2-24-00 5266'-5364'

Frac D sands: 138,783# 20/40 sand in 696 bbl Viking I-25 fluid. Perfs broke back at 2750 psi. Treated at avg. pressure of 2300 psi w/ avg. rate of 34 bpm. ISIP-2600 psi, 5 min.-2152 psi.

# **E**luland

#### Inland Resources Inc.

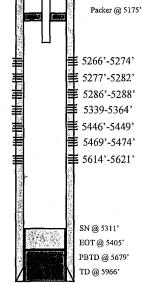
#### Monument Butte Federal #1-23

660' FNL 660' FEL

SWNE Section 23-T8S-R16E

Duchesne Co, Utah

API #43-013-32093; Lease #UTU-76560



<u>PERFOI</u>	RATION RECOR	D	_
2-24-00	5266'-5274'	2 JSPF	16 holes
2-24-00	5277'-5282'	2 JSPF	10 holes
2-24-00	5286'-5288'	2 JSPF	4 holes
2-24-00	5339'-5364'	2 JSPF	50 holes
2-22-00	5446'-5449'	4 JSPF	12 holes
2-22-00	5469'-5474'	4 JSPF	20 holes
2-22-00	5614'-5621'	4 JSPF	28 holes

# **Inland Production Company Site Facility Diagram**

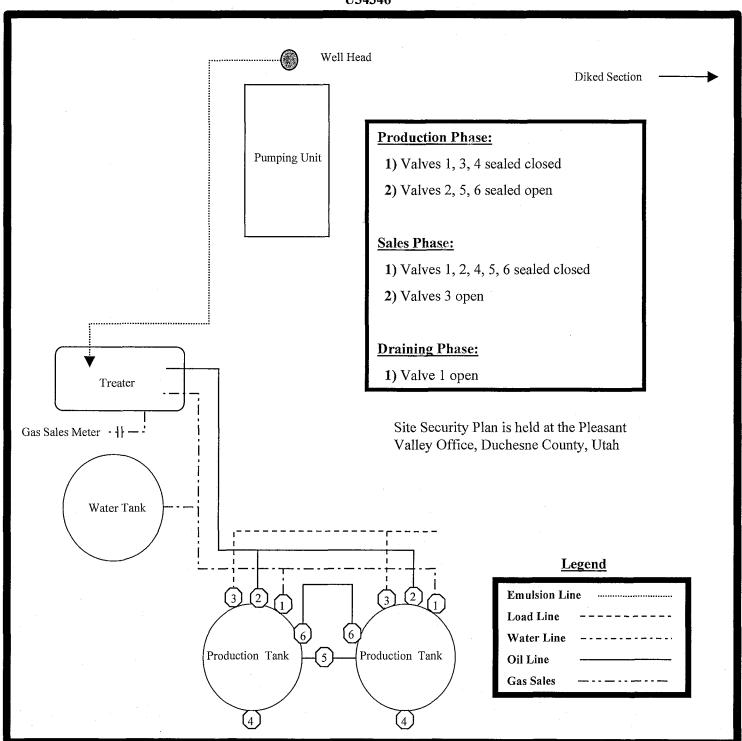
ATTACHMENT M-2

Monument Butte 1-23-8-16

**NENE Sec. 23, T8S, 16E** 

**Duchesne County, Utah** 

U34346



#### ATTACHMENT Q

#### WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1.	Plug #1	Set 505' plug from 5166'-5671' with 68 sxs Class "G" cement.
2.	Plug #2	Set 200' plug from 2000'-2200' with 25 sxs Class "G" cement.
3.	Plug #3	Set 100' plug from 270'-370' with 15 sxs Class "G" cement. (50' on either side of casing shoe)
4.	Plug #4	Set 50' plug from surface with 10 sxs Class "G" cement
5.	Plug #5	Pump 50 sxs Class "G" cement down the 8-5/8" x 4-1/2" annulus to cement to surface.

#### Monument Butte Federal #1-23

Spud Date: 2/03/00 Put on Production: 2/25/00 GL: 5341' KB: 5351'

Proposed P & A Wellbore Diagram Initial Production: 156 STBOPD, 100 MCFD, 0 STBWPD

#### SURFACE CASING

CSG SIZE: 8-5/8" GRADE: J-55 WEIGHT: 24# LENGTH: 7 JTS (305.6') DEPTH LANDED: 317.45'

HOLE SIZE: 12-1/4" CEMENT DATA:

145 sxs Class "G" cmt w/ 2% CaCl2 & 1/4#/sk Cello-Flake (5 bbls to surface)

10 sxs Class "G" cmt, 50' to surface

50 sxs Class "G" cmt down 8-5/8" x 4-1/2" anulus

15 sxs Class "G" cmt, 270'-370'

#### PRODUCTION CASING

CSG SIZE: 4-1/2" GRADE: J-55 WEIGHT: 11.6 ppf LENGTH: 137 jts (5910') HOLE SIZE: 7-7/8"

CEMENT DATA: 350 sxs Prem Lite II w/ 10% Gel & 3% KCl 550 sxs 50-50 POZ w/ 2% Gel & 3% KCl

CEMENT TOP AT: SET AT: 5921.76' KB 25 sxs Class "G" cmt, 2000'-2200'

# ATTACHMENT Q-2

5266'-5274'
5277'-5282'
5286'-5288'
5339-5364'
5446'-5449'
5469'-5474'
5614'-5621'

Sand Top @ 'KB

PBTD @ 5679'

TD @ 5966'

68 sxs Class "G" cmt, 5671'-5166'

#### PERFORATION RECORD

2-23-00 2 JSPF 16 holes 5266'-5274' 5277'-5282' 10 holes 2-23-00 2 JSPF 2-23-00 5286'-5288' 2 JSPF 4 holes 2-23-00 5339'-5364' 2 JSPF 50 holes 2-21-00 5446'-5449' 4 JSPF 12 holes 2-21-00 5469'-5474' 4 JSPF 20 holes 5614'-5621' 2-21-00 4 JSPF 28 holes



#### Inland Resources Inc.

#### Monument Butte Federal #1-23

660' FNL 660' FEL

SWNE Section 23-T8S-R16E

Duchesne Co, Utah

API #43-013-32093; Lease #UTU-76560

#### BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH

---00000---

IN THE MATTER OF THE

NOTICE OF AGENCY

APPLICATION OF FOR

**ACTION** 

ADMINISTRATIVE APPROVAL OF

CAUSE NO. UIC-261

THE MONUMENT BUTTE FEDERAL 1-23-8-16 WELL LOCATED IN

SECTION 23, TOWNSHIP 8 SOUTH,

RANGE 16 EAST, SALT LAKE, DUCHESNE COUNTY, UTAH, AS A **CLASS II INJECTION WELL** 

---00000----

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of INLAND PRODUCTION COMPANY for administrative approval of the MONUMENT BUTTE FEDERAL 1-23-8-16 well, located in Section 23, Township 8 SOUTH, Range 16 EAST, DUCHESNE County, Utah, for a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selective zones in the GREEN RIVER Formation will be used for water injection. The maximum requested injection pressure and rate will be determined on each individual well based on fracture gradient information submitted by INLAND PRODUCTION COMPANY.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedure rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 16th day of AUGUST, 2000.

STATE OF UTAH

DIVISION OF OIL, GAS & MINING

Associate Director, Oil & Gas

#### INLAND PRODUCTION COMPANY MONUMENT BUTTE FEDERAL 1-23-8-16 Cause No. UIC-261

Publication Notices were sent to the following:

INLAND PRODUCTION COMPANY Rte 3, Box 3630 Myton, UT 84052

fax #237-2776
Salt Lake Tribune
143 So Main Street
Salt Lake City, UT 84111

fax #435-722-4140
Uintah Basin Standard
268 South 200 East
Roosevelt, UT 84066-3109

Vernal District Office
Bureau of Land Management
170 South 500 East
Vernal, UT 84078

DUCHESNE County Assessor PO Drawer 899 Duchesne, UT 84021-0899

Ferron Secakuku Ute Tribe PO Box 70 Ft. Duchesne, UT 84026

SITLA 675 East 500 South, Suite 500 V Salt Lake City, UT 84102-2818

Dan Jackson
US EPA Region VIII, Suite 5000
999 18th Street
Denver, CO 80202-2466

Earlene Russell
Secretary

August 16, 2000

#### TRANSACTION REPORT

AUG-16-2000 WED 11:24 AM

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# OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt Kathleen Clarke Executive Director Lowell P. Braxton

Division Director

1594 West North Temple, Suite 1210 PO Box 145801 Salt Lake City, Utah 84114-5801 801-538-5340 801-359-3940 (Fax) 801-538-7223 (TDD)

August 16, 2000

SENT VIA FAX fax #237-2776

Salt Lake Tribune 143 So Main Street Salt Lake City, UT 84111

Notice of Agency Action - Cause No. UIC-261 RE:

#### Gentlemen:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, Suite 1210, PO Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,



# State of Utah DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt Governor Kathleen Clarke Executive Director Lowell P. Braxton Division Director 1594 West North Temple, Suite 1210 PO Box 145801 Sait Lake City, Utah 84114-5801 801-538-5340 801-359-3940 (Fax) 801-538-7223 (TDD)

August 16, 2000

SENT VIA FAX fax #237-2776

Salt Lake Tribune 143 So Main Street Salt Lake City, UT 84111

RE: Notice of Agency Action - Cause No. UIC-261

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Sincerely,

Earlene Russell

Secretary

encl.

•	TRANSACTION REPORT	AUG-16-2000 WE	D 11:20 AM
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	TOTAL :	50S PAGES: 2	



# State of Utah

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

Michael O, Leavitt Governor

Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

1594 West North Temple, Suite 1210 PO Box 145801 Salt Lake City, Litah 84114-5801 801-538-5340 801-359-3940 (Fax)

August 16, 2000

SENT VIA E-MAIL AND FAX fax #435-722-4140

Uintah Basin Standard 268 South 200 East Roosevelt, UT 84066-3109

RE: Notice of Agency Action - Cause No. UIC-261

#### Gentlemen:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, Suite 1210, PO Box 145801, Salt Lake City, Utah 84114-5801.

est.... 1

#### BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH

---00000---

IN THE MATTER OF THE	:	NOTICE OF AGENCY ACTION
APPLICATION OF TULAUS PRODUCTION (operator)	Company	CAUSE NO. UIC-261
FOR ADMINISTRATIVE APPROVAL	:	
OF THE	:	
MONUMENT BUTTE FEDERAL 1-23-8.	-16:	
WELL\$		
TOWNSHIP 85,		TO M E TRIBE
S.L.M.	S	ITLA
DUCHESNE COUNTY, UTAH,	D	ICHESNE COUNTY
AS CLASS II INJECTION WELLS		
	00000	
THE STATE OF UTAH TO ALL PERSONS	S INTERESTE	D IN THE ABOVE ENTITLED MATTER.
informal adjudicative proceeding to consider administrative approval of the <u>(same as a Township (same as above)</u> , Range <u>(same as above)</u> ,	er the application in the second section in the second sec	s and Mining (the "Division") is commencing an on of <u>(operator - same as above)</u> for located in Section (same as above),M. (same as above) County, Utah, for I be conducted in accordance with Utah Admin.
The GPEN RIVER  The maximum injection pressure and rate gradient information submitted by Inland P	will be determ	I be selectively perforated for water injection. ined on each individual well based on fracture pany.
a written protest or notice of intervention w notice. If such a protest or notice of intervention	rith the Division ention is receiv	otherwise intervene in the proceeding, must file within fifteen days following publication of this red, a hearing will be scheduled before the Board hould be prepared to demonstrate at the hearing
Dated this day of	199	_ <u>.</u>

From:

"NAC Legals" <naclegal@nacorp.com>

To:

"Earlene Russell" <nrogm.erussell@state.ut.us>

Date:

8/16/00 2:47PM

Subject:

Re: UIC 261

I got your email. Thank you.

Ad is scheduled for Sunday, August 20.

Lynn

----Original Message-----

From: Earlene Russell <a href="mailto:rnogm.erussell@state.ut.us">rno: naclegal@nacorp.com</a> <a href="mailto:rnogm.erussell@state.ut.us">rnogm.erussell@state.ut.us</a>

Date: Wednesday, August 16, 2000 1:35 PM

Subject: UIC 261

Try this one. This is the way I ususally send them. You should have received the fax now.

Let me know how this works and if you got the fax. Thanks.

143 SOUTH MAIN ST. P.O.BOX 45838 SALT LAKE CITY, UTAH 84145 FED.TAX I.D.# 87-0217663

# Newspaper Agency Corporation The Salt Lake Tribune (NA) DESERET NEWS

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PROOF OF	PUBLICATION

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING 1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	D5385340L-07	08/20/00

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DEFORE WAY A		BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF INTAL
BEFORE THE DIV	ISION OF OIL, GA	STATE OF UTAH
5	IZE	IN THE MATTER OF THE
55 LINES	1.00 COLUMN	IN THE MATTER OF THE NOTICE OF AGENCY APPLICATION OF FOR ACTION ADMINISTRATIVE APPROVAL OF THE MONUMENT BUTTE FEDERAL 1-23.8-16 WELL LOCATED IN SECTION 23. TOWNSHIP 8 SOUTH, RANGE 16 EAST. SAIT 14.
TIMES	2.00 COLUMN	1-23-8-16 WELL LOCATED IN CAUSE NO. UIC-261 SECTION 23, TOWNSHIP 8 SOUTH
	RATE	SECTION 23, TOWNSHIP 8 SOUTH, RANGE 16 EAST, SALT LAKE, DUCHESNE COUNTY, UTAH, AS A CLASS II INJECTION WELL
1	1.64	
MISC. CHARGES	AD CHARGES	00000 The state of utah to all persons interested in the above entitled Matter.
		Notice is berefy when the second interested in the ABOVE ENTITLED
.00	180.40	(the "Division") is commencing an informal adjudicative pro-
	TOTAL COST	COMPANY for administrative approval of the MONUMENT BUTTE FEDERAL 1-23-8-16 well, located in Section 32.7
		Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of INLAND PRODUCTION COMPANY for administrative approval of the MONUMENT BUTTE RONGE 1.23-8-16 well, located in Section 23, Township 8 SOUTH, well. The proceeding will be conducted in accordance with Ulah dmin. 8649-10, Administrative Procedures.  Selective zones in the COSEN PRICES.
{	180.40	Selective zones in the CREEN PLACE.
3.0070		Selective zones in the GREEN RIVER Formation will be used for acter injection. The maximum requested injection pressure and red will be determined on each individual well based on fracture action information submitted by INLAND PRODUCTION COM-
AFFIDAVE AS NEWSPAPER AGENCY CORPORATION ADVERTISEMENT OF BEFORE THE DIV OF OIL-GAS & MINING CORPORATION, AGENT FOR THE SALT	IT OF PUBLICATION	ANY. Information submitted by INLAND PRODUCTION COM-
AS NEWSPAPER AGENCY COPPORATION	I TEGRI DOCUMENT	Any person desiring to object to the application or otherwise in-
ADVERTISEMENT OF BEFORE THE	DIVISION OF OIL OR	on of this notice. If such a protest or notice of intervention is re-
DIV OF OIL-GAS & MINING	WAS DIED TOWER DE	orementioned administrative procedure rules. Protestants
CORPORATION, AGENT FOR THE SALT	LAKE TRIBING AND DESERVED	Dated this 44th days (14 years)
PRINTED IN THE ENGLISH LANGUAGE	WITH GENERAL CIRCULATION SI	ATE OF HTAH
IN SALT LAKE CITY, SALT LAKE CO	OUNTY IN THE STATE OF HEAD (	ATE OF UTAH //SION OF OIL, GAS & MINING
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		April 1, 2 2 4
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THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION" PLEASE PAY FROM BILLING STATEMENT.

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#### AFFIDAVIT OF PUBLICATION

AUS = n 2000

DIVISION OF OIL, GAS AND MINING

County of Duchesne, STATE OF UTAH

NOTICE OF AGENCY ACTION

CAUSE NO. UIC-261
IN THE MATTER OF
THE APPLICATION OF
FOR ADMINISTRATIVE
APPROVAL OF THE
MONUMENT BUTTE
FEDERAL 1-23-8-16
WELLLOCATEDIN SECTION 23, TOWNSHIP 8
SOUTH, RANGE 16
EAST, SALT LAKE,
DUCHESNE COUNTY,
UTAH, AS A CLASS II
INJECTION WELL

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of INLAND PRODUCTION COMPANY for administrative approval of the MONUMENT BUTTE FEDERAL 1-23-8-16 well, located in Section 23, Township 8 SOUTH, Range 16 DUCHESNE EAST, County, Utah, for a Class II injection well. The proceeding will be conducted in accordance with Utah Admin.

R649-10, Administrative Procedures.

Selective zones in the GREEN RIVER Formation will be used for water injection. The maximum requested injection pressure and rate will be determined on each individual well based on fracture gradient information submitted by INLAND PRODUCTION COMPANY.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedure rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

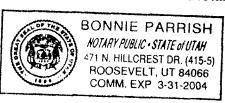
Dated this 16th day of AUGUST, 2000.

STATE OF UTAH DIVISION OF OIL, GAS & MINING

Gil Hunt

for John R. Baza
Associate Director, Oil

Published in the Uintah Basin Standard August 22, 2000.





January 25, 2007

Mr. Dan Jarvis
State of Utah
Division of Oil, Gas and Mining
Post Office Box 145801
Salt Lake City, Utah 84114-5801

RE: Permit Application for Water Injection Well

Monument Butte Federal #1-23-8-16

Monument Butte Field, Fenceline Unit, Lease #UTU-76560

Section 23-Township 8S-Range 16E

Duchesne County, Utah

Dear Mr. Jarvis:

Newfield Production Company herein requests approval to convert the Monument Butte Federal #1-23-8-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field, Fenceline Unit.

I hope you find this application complete; however, if you have any questions or require additional information, please contact me at (303) 893-0102.

Sincerely

David Gerbig

Operations Engineer

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DIV. OF OIL, GAS & MINING

# NEWFIELD PRODUCTION COMPANY APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL MONUMENT BUTTE FEDERAL #1-23-8-16 MONUMENT BUTTE FIELD (GREEN RIVER)

FENCELINE UNIT

**LEASE #UTU-76560** 

**JANUARY 25, 2007** 

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ATTACHMENT H-1

OPERATOR

**ADDRESS** 

#### APPLICATION FOR INJECTION WELL - UIC FORM 1

Newfield Production Company 1401 17th Street, Suite 1000

Denver, Colorado 80202

Well Location: QQ NE/NE section 23 township 8S range 16E county Duche ls this application for expansion of an existing project?	Well Name and num	Monument Butte Federal #1-23-8-16								
Is this application for expansion of an existing project?	Field or Unit name:	Monument	Butte (Gree	n River), Fence	eline Unit		Lease No.	UTU-76560		
Disposal? Yes [] No [X] Storage? Yes [] No [X] Its this application for a new well to be drilled? Yes [] No [X] If this application is for an existing well, has a casing test been performed on the well? Yes [] No [X]  Date of test: API number: 43-013-32093  Proposed injection interval: from 4551 to 500 bpd pressure 2566 psig Proposed maximum injection: rate 500 bpd pressure 2566 psig Proposed injection zone contains [x] oil, [] gas, and/or [] fresh water within 1/2 mile of the well.  IMPORTANT: Additional information as required by R615-5-2 should accompany this form.  List of Attachments: Attachments "A" through "H-1"  I certify that this report is true and complete to the best of my knowledge.  Name: David Gerbig Signature Date  Title Operations Engineer Date  C(State use only) Application approved by Title	Well Location: QQ	NE/NE	section	23	_ township .	88	_range	16E	county	Duchesne
Disposal? Yes [] No [X] Storage? Yes [] No [X] Storage? Yes [] No [X] Is this application for a new well to be drilled? Yes [] No [X] If this application is for an existing well, has a casing test been performed on the well? Yes [] No [X] Date of test:  API number: 43-013-32093  Proposed injection interval: from 4551 to 5966 psig Proposed maximum injection: rate 500 bpd pressure 2566 psig Proposed injection zone contains [x] oil, [] gas, and/or [] fresh water within 1/2 mile of the well.  IMPORTANT: Additional information as required by R615-5-2 should accompany this form.  List of Attachments: Attachments "A" through "H-1"  I certify that this report is true and complete to the best of my knowledge.  Name: David Gerbig Signature Date  Phone No. (303) 893-0102  (State use only)  Application approved by Title	Is this application for	r expansion o	f an existing	project?.			Yes [X]	No [ ]		
If this application is for an existing well, has a casing test been performed on the well?	Will the proposed we	ell be used fo	r:	Disposal?	·		Yes [ ]	No [ X ]	j. 6.	
Proposed maximum injection: rate 500 bpd pressure 2566 psig Proposed injection zone contains [x ] oil, [ ] gas, and/or [ ] fresh water within 1/2 mile of the well.  IMPORTANT: Additional information as required by R615-5-2 should accompany this form.  List of Attachments: Attachments "A" through "H-1"  I certify that this report is true and complete to the best of my knowledge.  Name: David Gerbig Signature Date Title Operations Engineer Date Phone No. (303) 893-0102  (State use only) Application approved by Title	If this application is the has a casing test but the Date of test:	for an existing been perform	g well,							
accompany this form.  List of Attachments: Attachments "A" through "H-1"  I certify that this report is true and complete to the best of my knowledge.  Name: David Gerbig Signature Date  Title Operations Engineer Date  (State use only)  Application approved by	Proposed maximum Proposed injection z	injection: one contains	rate [x ] oil, [ ] g	500 bpd as, and/or	_pressure [ ] fresh wa	2566 ter within	<u>1</u> /2	-5-2 should	1	
I certify that this report is true and complete to the best of my knowledge.  Name: David Gerbig Signature Title Operations Engineer Date  Phone No. (303) 893-0102  (State use only) Application approved by Title		iiiii Oik								
Name: David Gerbig Signature Date  Title Operations Engineer Date  (State use only) Application approved by Title	List of Attachments:		Attachmer	its "A" thro	ugh "H-1"					
Name: David Gerbig Signature Date  Title Operations Engineer Date  (State use only) Application approved by Title										
Application approved byTitle	Name: <u>Davi</u>	d Gerbig rations Engin	•	o the best	_Signature	dge.	nd	Jen Jen		_
Approval Date	Application approved	•					_Title			

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#### Monument Butte Federal #1-23-8-16

Spud Date: 2/03/00 Put on Production: 3/22/00 GL: 5341' KB: 5351'

Proposed Injection Wellbore Diagram Initial Production: 156 BOPD, 100 MCFD, 0 STBWPD

#### SURFACE CASING

CSG SIZE: 8-5/8" GRADE: J-55 WEIGHT: 24#

LENGTH: 7 JTS (305.6') DEPTH LANDED: 317.45' HOLE SIZE: 12-1/4"

CEMENT DATA: 141 sx Class "G"cmt w/ 2% CaCl2 and

1/4#/sk Cello-Flake (5 bbls to surface)

#### PRODUCTION CASING

CSG SIZE: 4-1/2" GRADE: J-55 WEIGHT: 11.6# LENGTH: 137 jts (5910') SET AT: 5921.76' KB HOLE SIZE: 7-7/8"

CEMENT DATA: 350 sxs Prem Lite II w/ 10% Gel & 3% KCl 550 sxs 50-50 POZ w/ 2% Gel & 3% KCl

CEMENT TOP AT: 532'

#### TUBING

SIZE/GRADE/WT.: 2-3/8" / 4.7# / LS NO. OF JOINTS: 170 jts (5246.94') TUBING ANCHOR: 5256.94' KB NO. OF JOINTS: 2 jts (5252.90') SEATING NIPPLE: 2-3/8" (1.10') SN LANDED AT: 5320,53' KB NO. OF JOINTS: 1 jts Perf (32.16') NO. OF JOINTS: 2 jts (59.48') TOTAL STRING LENGTH: EOT @ 5414.02'

2-22-00 5446'-5621' 10/15/01 10/23/01 10/27/01 6/13/02 12/16/05 Packer @ 5231' 5266'-5274' 5277'-5282' 5286'-5288' 5339-5364 5446'-5449' 5469'-5474' Metal trash @ 5508' 5614'-5621' Top of fill @ 5508' PBTD @ 5883' TD @ 5966'

FRAC JOB

Frac C/B sands: 45,516# 20/40 sand in 325 bbl Viking I-25 fluid. Perfs broke down at 2880 psi. Treated at avg. pressure of 3200 psi w/ avg, rate of 28 BPM. Screened out.

2-24-00 5266'-5364'

138,783# 20/40 sand in 696 bbl Viking I-25 fluid. Perfs broke back at 2750 psi. Treated at avg. pressure of 2300 psi w/ avg. rate of 34 bpm. ISIP-2600 psi, 5 min.-2152 psi. Pump change. Update rod and tubing details.

Pump change. Update rod and tubing details. Change gas anchor. Update hole conditions. Pump change. Try to bail fill. Trash in hole. Tubing leak. Update rod and tubing details.

#### 2-24-00 2-22-00

2-24-00

5277'-5282' 2-24-00 2 JSPF 10 holes 2-24-00 5286'-5288' 5339'-5364' 2 JSPF 50 holes 4 JSPF 12 holes

2 JSPF

16 holes

28 holes

4 JSPF 5469'-5474' 2-22-00 5614'-5621'

PERFORATION RECORD

5266'-5274'

NEWFIELD

Monument Butte Federal #1-23-8-16

660' FNL & 660' FEL NE/NE Section 23-T8S-R16E Duchesne Co, Utah API #43-013-32093; Lease #UTU-76560

#### WORK PROCEDURE FOR INJECTION CONVERSION

- 1. Rig up hot oil truck to casing. Pump water. Unseat pump. Flush rods. Trip out of hole with rods and pump.
- 2. Trip out of hole with tubing, breaking and doping every connection. Trip in hole with packer and tubing. Rig up water truck to casing. Pump packer fluid. Set packer.
- 3. Test casing and packer.
- 4. Rig down and move out.

# REQUIREMENTS FOR INJECTION OF FLUIDS INTO RESERVOIRS RULE R615-5-1

- 1. Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.
- 2. A request for agency action for authority for the injection of gas, liquified petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:
  - 2.1 The name and address of the operator of the project.

Newfield Production Company 1401 17<sup>th</sup> Street, Suite 1000 Denver, Colorado 80202

2.2 A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile of the project area.

See Attachment A.

2.3 A full description of the particular operation for approval is requested.

Approval is requested to convert the Monument Butte Federal #1-23-8-16 from a producing oil well to a water injection well in Monument Butte (Green River) Field, Fenceline Unit.

2.4 A description of the pools from which the identified wells are producing or have produced.

The proposed injection well will inject into the Green River Formation.

2.5 The names, description and depth of the pool or pools to be affected.

The injection zone is in the Green River Formation. For the Monument Butte Federal #1-23-8-16 well, the proposed injection zone is from Garden Gulch to Basal Limestone (4551'-5666'). The confining strata directly above and below the injection zones are the Garden Gulch and Castle Peak Members of the Green River Formation, with the Garden Gulch Marker top at 4218' and the Castle Peak top at 5966'.

2.6 A copy of a log of a representative well completed in the pool.

The referenced log for the Monument Butte Federal #1-23-8-16 is on file with the Utah Division of Oil, Gas and Mining.

2.7 A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The average estimated injection of fluids will be at a rate of 300 BPD, and the estimated maximum injection will be at a rate of 500 BPD.

2.8 A list of all operators and surface owners within one-half mile radius of the proposed project.

See Attachment B.

2.9 An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.

See Attachment C.

2.10 Any additional information the Board may determine is necessary to adequately review the petition.

Newfield Production Company will supply any additional information requested by the Utah Division of Oil, Gas and Mining.

4.0 Establish recovery projects may be expanded and additional wells placed on injection only upon authority from the Board after notice and hearing or by administrative approval.

This proposed injection well is on a State lease (Lease #UTU-76560) in the Monument Butte (Green River) Field, Fenceline Unit, and this request is for administrative approval.

#### REQUIREMENTS FOR CLASS II INJECTION WELLS INCLUDING WATER DISPOSAL, STORAGE AND ENHANCED RECOVERY WELLS SECTION V – RULE R615-5-2

- 1. Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.
- 2. The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:
  - A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.

See Attachments A and B.

2.2 Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper and porosity.

All logs are on file with the Utah Division of Oil, Gas and Mining.

2.3 A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.

A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.

2.4 Copies of logs already on file with the Division should be referenced, but need not be refiled.

All copies of logs are on file with the Utah Division of Oil, Gas and Mining.

2.5 A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.

The casing program is 8-5/8", 24#, J-55 surface casing run to 317' GL, and 4-1/2" 11.6# J-55 casing run from surface to 5922' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.

2.6 A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.

2.7 Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.

See Attachment F.

The proposed average and maximum injection pressures.

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 2566 psig.

2.8 Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.

The minimum fracture gradient for the Monument Butte Federal #1-23-8-16, for existing perforations (5266' - 5621') calculates at 0..93 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 2566 psig. We may add additional perforations between 4218' and 5966'. See Attachments G and G-1.

2.9 Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent.

In the Monument Butte Federal #1-23-8-16, the proposed injection zone (4551' - 5966') is in the Garden Gulch to Basal limestone members of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The members are composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' and is confined to the Monument Butte Field. Outside the Monument Butte Field, the sandstone is composed of tight, very fine, silty, calcareous sandstone, less than 3' thick. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

2.10 A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter the improper intervals.

See Attachments E through E-8.

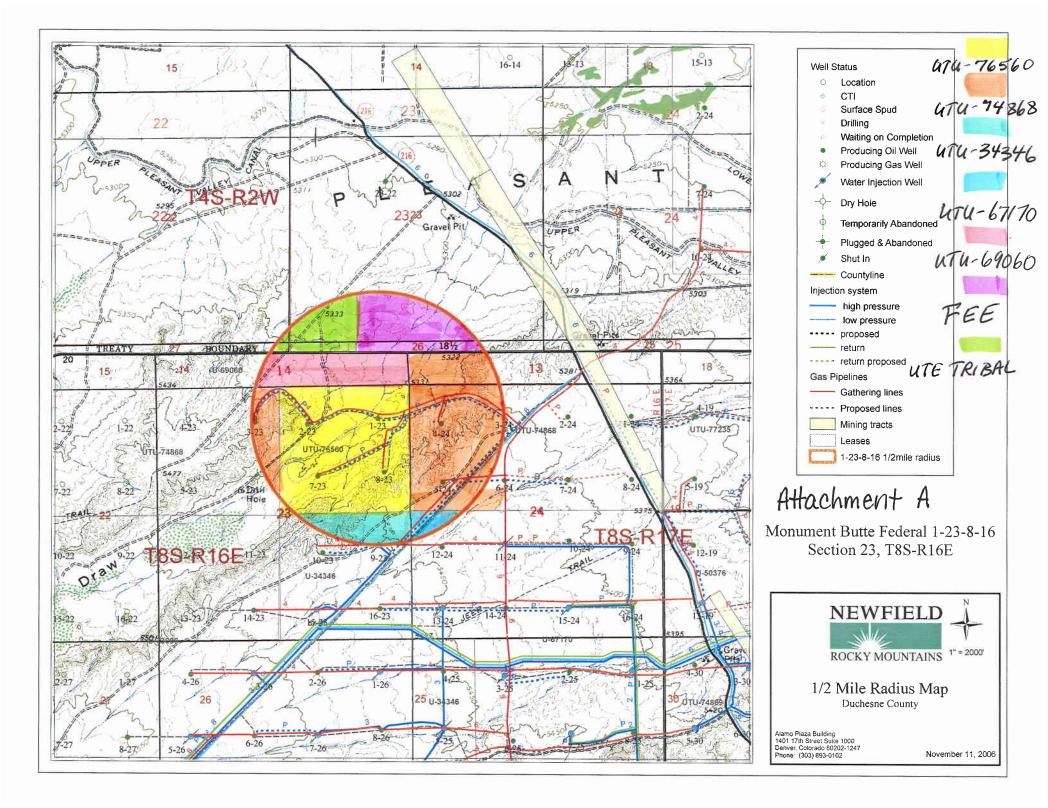
Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

2.11 An affidavit certifying that a copy of the application has been provided to all operators or owners, and surface owners within a one-half mile radius of the proposed injection well.

See Attachment C.

2.12 Any other information that the Board or Division may determine is necessary to adequately review the application.

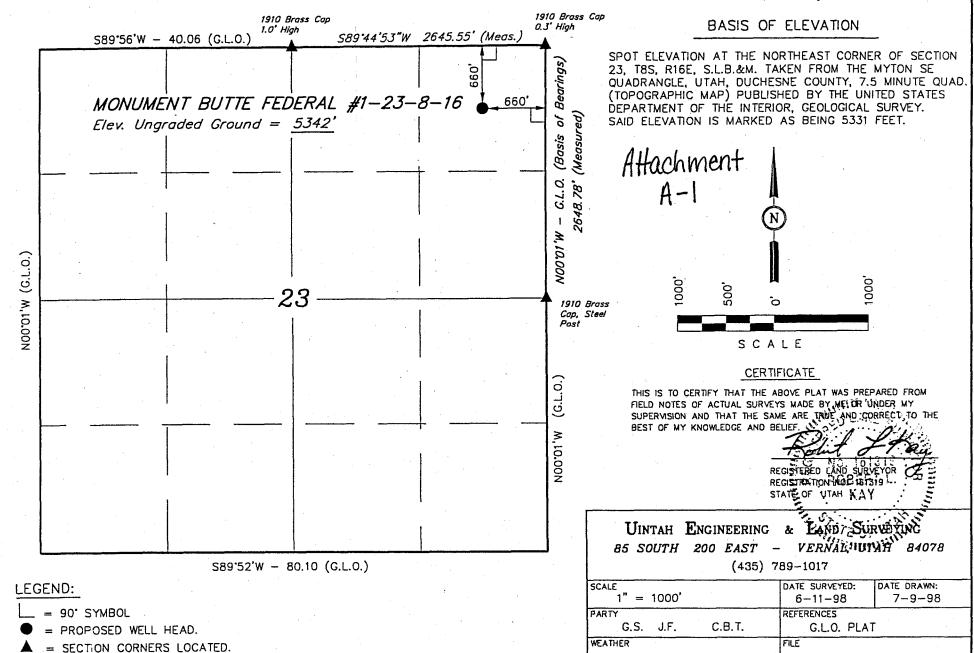
Newfield Production Company will supply any requested information to the Board or Division.



# T8S, R16E, S.L.B.&M.

Well location, MONUMENT BUTTE FEDERAL #1-23-8-16, located as shown in the NE 1/4 NE 1/4 of Section 23, T8S, R16E, S.L.B.&M. Duchesne County, Utah.

INLAND PRODUCTION CO.



HOT

INLAND PRODUCTION CO.

## EXHIBIT B

## Page 1

#	Land Description	Minerals Ownership & Expires	& Minerals Leased By	Surface Rights
1	Township 8 South, Range 16 East Section 23: NE/4	UTU-76560 HBP	Newfield Production Company Citation 1994 Investment LTD	(Surface Rights) USA
2	Township 8 South Range 16 East Section 13: All (Excluding patent # 813321) Section 22: NE/4 Section 23: NW/4 Section 24: N/2, Excluding Patent (# 813321)	UTU-74868 HBP 321 & 884015)	Newfield Production Company	(Surface Rights) USA
3	Township 8 South, Range 16 East Section 23: SE/4 Section 25: W/2NW/4 Section 26: SW/4, N/2SE/4	UTU-34346 HBP	Newfield Production Company Citation 1994 Investment L.P.	(Surface Rights) USA
4	Township 8 South, Range 16 East Section 24: S/2 Section 25: NE/4, E/2NW/4, S/2 Section 26: S/2SE/4	UTU-67170 HBP	Newfield Production Company	(Surface Rights) USA

# EXHIBIT B

# Page 2

#	Land Description	Minerals Ownership & Expires	& Minerals Leased By	Surface Rights		
	Land Description	Dapires	Deased By	Duriace regits		
5	Township 8 South, Range 16 East	UTU-69060	Newfield Production Company	(Surface Rights)		
	Section 14: Lots 1-4	HBP		USA		
	Section 15: Lots 1–3					
	Section 21: Lots 1-4, SE/4NE/4, NW/4SW/4, SE/4					
	Section 28: NE/4, S/2NW/4					
	Section 29: S/2NE/4, W/2, N/2SE/4					
		And the second s				
6	Township 4 South, Range 2 West	County of Duchesne,	Unleased	(Surface Rights)		
	Section 26: Lots 1, 2, 3	State of Utah		David Skoufos		
7	Township 4 South, Range 2 West	Martha W. Mace	Unleased	(Surface Rights)		
	Section 23: Lots 3, 8, 9, S/2NW/4,	Hal Wilcken, et ux		Larry T. Wilcken		
	NW/4NW/4, SW/4SE/4	Leonard Wilcken, et u	ıx	•		
	,	Leslie R. Wilcken, et				
		Verda Wilcken				

## EXHIBIT B

Page 3

			Minerals Ownership &	Minerals	
#	Land Description		Expires	Leased By	Surface Rights
8	Township 4 South, Range 2 West		Lorraine Yoho	Unleased	(Surface Rights)
	Section 23: Lots 2, 4, NW/4SE/4,		Pearl Duncanson		Harold Pyles
	E/2SW/4	4	Donald J. Pyles	John Imhoff	J.P.K. Ltd
		Jean Ready	Carol Sorrell	Charles Imhoff	
		Dorothy Ridlen	Willard D. Pyles Estate	Emmett H. Pyles	
		Charles Pyles	Sylvia B. Melrose	Patricia J. Anderson	
		Mary M. Wilkinson	August R. Pyles, et al	William O. Pyles	
		Mary L. Lee	Eileen Adams	Frank Archer Moore	
		Ada Bertig	Kenneth R. Pyles		
		Barbara A. Lewis	James Pyles	Donna Dietz	
		Jane L. Eberhardt	Dorothy Charbono	Patty Kline	
		Stanley Pyles	Roscoe E. Pyles	Jeanette Ramaglia	
		Lorraine Workman	Sarah J. Davis	Rhoda Schoeppner	
		F. Eugene Jeffers	John C. Pyles	Betty J. Pyles	
		Earle Schmoker	Lula P. McMahon	Cecil Pence	
		Eleanor Hansen	Harold E. Pyles	Francine Treadway	
		Robert Schmoker	Lucille Ingler	Earl F. Pyles	
		Alan Schmoker	Karen Slater	Landmark O&G Properties	
9	Township 4 South, I Section 23: Lots 1, W/2SW Section 27: Lot 1	6, 7, NE/4NE/4,	Ute Tribal	Unleased	(Surface Rights) Clinton L. Moon Donette Y. Moon

1-23-8-16 inj.doc.

### ATTACHMENT C

### CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well
Monument Butte Federal #1-23-8-16

I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

Signed: 

Nowfield Production Company
David Gerbig
Operations Engineer

Sworn to and subscribed before me this 

My Commission Expires:

My Commission Expires:

My Commission Expires:

No Septimes Application Well

Aday of February, 2006.

Frac C/B sands:

45,516# 20/40 sand in 325 bbl Viking I-25 fluid. Perfs broke down at 2880 psi. Treated

at avg. pressure of 3200 psi w/ avg, rate of 28 BPM. Screened out.

138,783# 20/40 sand in 696 bbl Viking I-25 fluid. Perfs broke back at 2750 psi. Treated at

avg. pressure of 2300 psi w/ avg. rate of 34

Pump change. Update rod and tubing details.

Change gas anchor. Update hole conditions. Pump change. Try to bail fill. Trash in hole.

Tubing leak. Update rod and tubing details.

bpm. ISIP-2600 psi, 5 min.-2152 psi.
Pump change. Update rod and tubing details.

# Monument Butte Federal #1-23-8-16

Spud Date: 2/03/00 Put on Production: 3/22/00 GL: 5341' KB: 5351'

#### Wellbore Diagram

Initial Production: 156 BOPD, 100 MCFD, 0 STBWPD

#### SURFACE CASING

CSG SIZE: 8-5/8" GRADE: J-55 WEIGHT: 24# LENGTH: 7 JTS (305:6')

DEPTH LANDED: 317.45' HOLE SIZE: 12-1/4"

CEMENT DATA: 141 sx Class "G"cmt w/ 2% CaCl2 and

1/4#/sk Cello-Flake (5 bbls to surface)

### PRODUCTION CASING

CSG SIZE: 4-1/2" GRADE: J-55 WEIGHT: 11.6# LENGTH: 137 jts (5910') SET AT: 5921.76' KB HOLE SIZE: 7-7/8"

CEMENT DATA: 350 sxs Prem Lite II w/ 10% Gel & 3% KCl 550 sxs 50-50 POZ w/ 2% Gel & 3% KCl

CEMENT TOP AT: 532'

#### TUBING

SIZE/GRADE/WT.: 2-3/8" / 4.7# / LS
NO. OF JOINTS: 170 jts (5246.94')
TUBING ANCHOR: 5256.94' KB
NO. OF JOINTS: 2 jts (5252.90')
SEATING NIPPLE: 2-3/8" (1.10')
SN LANDED AT: 5320.53' KB
NO. OF JOINTS: 1 jts Perf (32.16')
NO. OF JOINTS: 2 jts (59.48')
TOTAL STRING LENGTH: EOT @ 5414.02'

#### SUCKER RODS

POLISHED ROD: 1-1/4" x 22' SM
SUCKER RODS: 6-1 1/2" weight bars; 42-3/4" scraper rods; 69-3/4" slick rods,
96-3/4" scraper rods, 1-8' x 3/4" pony rod.
PUMP SIZE: 2" x 1-1/2", 12'x 16' RWAC
STROKE LENGTH: 72"

PUMP SPEED, SPM: 4 SPM

# NEWFIELD

Monument Butte Federal #1-23-8-16 660' FNL & 660' FEL NE/NE Section 23-T8S-R16E Duchesne Co, Utah API #43-013-32093; Lease #UTU-76560

FRAC JOB 2-22-00 5446'-5621' 2-24-00 5266'-5364' 10/15/01 10/23/01 10/27/01 6/13/02 12/16/05 Anchor @ 5257' 5266'-5274' 5277'-5282' 5286'-5288' 5339-5364 5446'-5449' 5469'-5474' Metal trash @ 5508' 5614'-5621' SN @ 5321' EOT @ 5414' Top of fill @ 5508 PBTD @ 5883' TD @ 5966'

# PERFORATION RECORD

2-24-00	5266'-5274'	2 JSPF	16 holes
2-24-00	5277'-5282'	2 JSPF	10 holes
2-24-00	5286'-5288'	2 JSPF	4 holes
2-24-00	5339'-5364'	2 JSPF	50 holes
2-22-00	5446'-5449'	4 JSPF	12 holes
2-22-00	5469'-5474'	4 JSPF	20 holes
2-22-00	5614'-5621'	4 JSPF	28 holes

# Monument Butte Federal #3-23-8-16

Spud Date: 6/4/00 Put on Production: 6/23/00 GL: 5437' KB: 5447'

Wellbore Diagram

Initial Production: 0 BOPD, 640 MCFG, 0 BWPD Re-completion: 77 BOPD, 27 MCFG, 10 BWPD

### FRAC JOB

Anchor @ 5282' KB

**5300'-5313'** 

5318'-5326'

SN @ 5317' EOT @ 5381' PBTD @ 6008'

TD @ 6037'

CIBP @ 5490' (10/05/00)

5545'-5547' (Not frac'd) 5609'-5618' (Not Frac'd)

10/6/00 5300'-5326'

Frac D-S3 sands: 74,000# 20/40 sand in 449 bbls Viking I-25 fluid. Treated w/ave press of 2340 psi. @ 29.8 BPM. ISIP-2280 psi. Calc. flush: 3460 gal. Actual flush: 3360 gal.

# SURFACE CASING

CSG SIZE: 8-5/8" GRADE: J-55 WEIGHT: 24#

LENGTH: 7 JTS (288.85') DEPTH LANDED: 301' HOLE SIZE: 12-1/4"

CEMENT DATA: 141 sxs Class "G"cmt.

### PRODUCTION CASING

CSG SIZE: 4-1/2"
GRADE: J-55
WEIGHT: 11.6#

LENGTH: 142 jts (5999') SET AT: 6009.77' KB HOLE SIZE: 7-7/8"

CEMENT DATA: 350 sxs Prem Lite II w/10% Gel & 3% KCl

550 sxs 50-50 POZ w/ 2% Gel & 3% KCl

CEMENT TOP AT: 344' per CBL

#### TUBING

SIZE/GRADE/WT: 2-3/8"4.7# J-55
NO. OF JOINTS: 169 jts (5272')
TUBING ANCHOR: 5282' KB
NO. OF JOINTS: 1 jts (31')
SEATING NIPPLE: 2-3/8"
SN LANDED AT: 5316' KB
NO. OF JOINTS: 2 jts (62')
TOTAL STRING LENGTH: EOT @ 5380.57' KB

.

#### SUCKER RODS

POLISHED ROD: 1-1/4"x22"

SUCKER RODS: 4- 1 1/2" wt bars, 10 - 3/4" guided rods, 108 - 3/4" plain rods, 89 - 3/4" guided rods, 2 - 2', 1-6', 1-8'x3/4" pony rods

PUMP SIZE: 2" x 1-1/2" x 16' RHAC PUMP

PUMP SIZE: 2" x 1-1/2" x 16' RH STROKE LENGTH: 74"

PUMP SPEED, SPM: 6

PUMP SPEED, SPM: 6

LOGS: DIGL, SP, GR, CAL, Comp. Neutron, Comp. Density, CBL

### PERFORATION RECORD

6/23/00 5609'-5618' 4 JSPF 36 holes 6/23/00 5545'-5547' 4 JSPF 8 holes 10/6/00 5318'-5326' 4 JSPF 32 holes 10/6/00 5300'-5313' 4 JSPF 52 holes

# NEWFIELD

### Monument Butte Federal #3-23-8-16

716' FNL & 2050' FWL

NENW Section 23-T8S-R16E

Duchesne Co, Utah

API #43-013-32095; Lease #UTU-74868

# Monument Butte Federal #2-23-8-16

Spud Date: 2/11/00 Put on Production: 3/11/00 GL: 5361' KB: 5371'

#### Wellbore Diagram

Initial Production: ?

#### SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 JTS (293')

DEPTH LANDED: 304.85'

HOLE SIZE: 12-1/4"

CEMENT DATA: 141 sxs Class "G"cmt.

### PRODUCTION CASING

CSG SIZE: 5-1/2" GRADE: J-55 WEIGHT: 15.5 ppf LENGTH: 140 jts (5939') SET AT: 5950.42' KB HOLE SIZE: 7-7/8"

CEMENT DATA: 250 sxs Prem Lite II w/ 10% Gel & 3% KCL

400 sxs 50/50 POZ w/ 2% Gel & 3% KCl

CEMENT TOP AT:

#### TUBING

SIZE/GRADE/WT: 2-7/8" / J-55/6.5#
NO. OF JOINTS: 179 jts (5590.25')
TUBING ANCHOR: 5600.25' KB
NO. OF JOINTS: 1 jt (31.20')
SEATING NIPPLE: 2-7/8"
SN LANDED AT: 5634.25' KB
NO. OF JOINTS: 2 jts (62.53')

TOTAL STRING LENGTH: EOT @ 5698.33' KB

### SUCKER RODS

POLISHED ROD: 1-1/2"x22'

SUCKER RODS: 6 - 1-1/2" wt bars, 88 - 3/4" scrapered rods, 100 - 3/4" plain rods, 30 - 3/4" scrapered rods, 1 - 2' X 3/4" pony rod

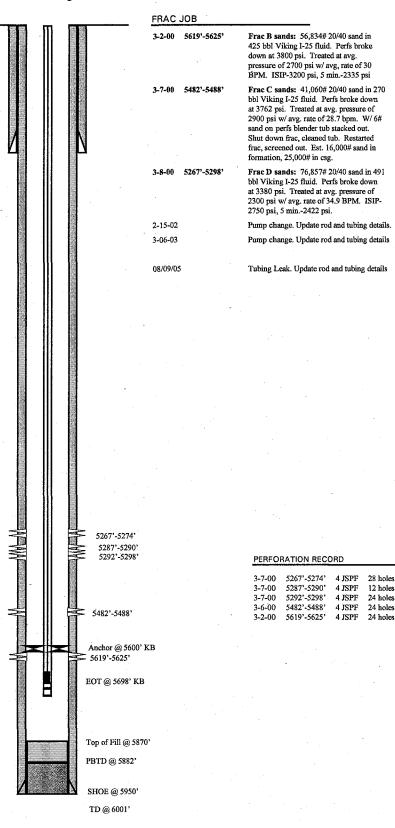
PUMP SIZE: Randy's 2-1/2" x 1-1/2" x 15.5' RHAC PUMP

STROKE LENGTH: 42" SL PUMP SPEED: 4 SPM

SN @ 5634'KB

# NEWFIELD

Monument Butte Federal #2-23-8-16 766' FNL & 2135' FEL NWNE Section 23-T8S-R16E Duchesne Co, Utah API #43-013-32094; Lease #UTU-76560



# Monument Butte Federal #4-24-8-16

Spud Date: 2/19/00 Put on Production: 3/16/00 GL: 5371' KB: 6011'

NWNW Section 24-T8S-R16E Duchesne Co, Utah API #43-013-32097; Lease #UTU-74868 Wellbore Diagram

#### FRAC JOB SURFACE CASING CSG SIZE: 8-5/8" Frac D sands: 115,000# 20/40 sand in 615 3/14/00 5379\*-5509\* bbls Viking I-25 fluid. Perfs broke back @ GRADE: J-55 1550 psi @ 35 BPM. Treated @ avg pre of 1700 psi w/avg rate of 36.2 BPM. ISIP 2680 psi, 5 min 1701 psi. RD BJ. WEIGHT: 24# LENGTH: 7 JTS (306') Flowback D/C Sands on 12/64" chk for 3-DEPTH LANDED: 297' KB 1/2 hrs & died. Rec 135 BTF (est 22% of load). TIH w/pinned NC & tbg. Tag sand @ 5788'. Well flwd & tbg displaced add'l HOLE SIZE: 12-1/4" CEMENT DATA: 141 sxs Class "G"cmt w/ 2% CaCl2 & 31 BF on TIH. C/O sand to PBRD 5955'. 1/4#/sk Cello-Flake (4 bbls to surface) Circ hole clean. Pull Eot to 5882'. SIFN w/est 459 BWTR 1/29/02 Pump change. Update rod and tubing details. 2/5/04 Pump change. Update rod details. PRODUCTION CASING 02/22/06 Pump Change. Update rod and tubing details. CSG SIZE: 5-1/2" GRADE: J-55 WEIGHT: 17# LENGTH: 192 jts J-55 (5955') HOLE SIZE: 7-7/8 CEMENT DATA: 250 sxs Prem Lite II w/ 10% Gel & 3% KCl & .5% S.M. & 3#/sk CSE & 2#/sk Kol-Seal & 1/4#/sk Cello-Flake 400~sxs~50-50~POZ~w/~2%~Gel~&~3%~KCl~&~1/4#/skCello-Flake & 3% S.M. (20 bbl dye to sfc) CEMENT TOP AT: SET AT: 5950' KB <u>TUBI</u>NG SIZE/GRADE/WT: 2-7/8" / J-55 / 6.5# NO. OF JOINTS: 175 jts (5447.49') TUBING ANCHOR: 5457' KB NO. OF JOINTS: 2 jts (60.79') SEATING NIPPLE: 2-7/8" x 1.10' SN LANDED AT: 5521.08' KB NO. OF JOINTS: 2 jts (62.70') TOTAL STRING LENGTH: EOT @ 5585.33' KB SUCKER RODS PERFORATION RECORD POLISHED ROD: 1-1/2" x 22' SM 5506'-5509' 3/13/00 4 JSPF 12 holes SUCKER RODS: 6-1 1/2" weight bars; 10-3/4" scrapered rods; 109-3/4" 5396'-5405' 3/13/00 4 JSPF 36 holes slick rods, 94-7/8" scrapered rods, 1-2' 1-4', 1-6', 1-8' x 7/8" pony rods. 3/13/00 5379'-5393' 4 JSPF 12 holes 5379'-5393' PUMP SIZE: 2-1/2" x 1-1/2" x 15' RHAC STROKE LENGTH: 74" 5396'-5405' PUMP SPEED, SPM: 4 SPM Anchor @ 5457' KB 5506'-5509' SN @ 5521'KB EOT @ 5585' KB Top of fill @ 5895' NEWFIELD PBTD @ 5955' Monument Butte Federal #4-24-8-16 SHOE/TD @ 6002' 783' FNL & 675' FWL

# Fenceline Federal 3-24-8-16

Initial Production: BOPD 120, Spud Date: 3-2-05 Put on Production: 5-7-05 Wellbore Diagram MCFD 16, BWPD 195 GL: 5407' KB: 5419' FRAC JOB SURFACE CASING CSG SIZE: 8-5/8" 4-25-05 6396-6461' Frac CP3 &CP4 sand as follows: 49,077#'s 20/40 sand in 460 bbls Lightning 17 frac fluid. Treated @ avg press of 1677 psi GRADE: J-55 w/avg rate of 24.8 BPM. ISIP 2400 psi. Calc WEIGHT: 24# flush: 6394 gal. Actual flush: 6426 gal. LENGTH: 7 jts. (301.46') 5-2-05 6279-6293 Frac CP1 sand as follows: DEPTH LANDED: 313.31' KB 59463#'s 20/40 sand in 513 bbls Lightning 17 frac fluid. Treated @ avg press of 1676 psi w/avg rate of 24.7 BPM. ISIP 2550 psi. Calc flush: 6277 gal. Actual flush: 6426 gal. HOLE SIZE:12-1/4" CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf. TOC @ 1850' Frac C, D3 & D2 sand as follows: 5-3-05 5438-5562 171407#'s 20/40 sand in 1145 bbls Lightning 17 frac fluid. Treated @ avg press of 1913 psi w/avg rate of 25.1BPM. ISIP 2360 psi. Calc flush: 5436 gal. Actual flush: 5434 gal. Frac GB2 sand as follows: 5-3-05 4736-4746 PRODUCTION CASING 21108#'s 20/40 sand in 229 bbls Lightning 17 frac fluid. Treated @ avg press of 1988 psi CSG SIZE: 5-1/2" w/avg rate of 25 BPM. ISIP 2200 psi. Calc GRADE: J-55 flush: 4734 gal. Actual flush: 3822 gal. WEIGHT: 15.5# 09/23/05 Pump Change. Update tubing and rod details. LENGTH: 186 jts. (6670.38') DEPTH LANDED: 6669.63' KB HOLE SIZE: 7-7/8" CEMENT DATA: 375 sxs Prem. Lite II & 475 sxs 50/50 POZ. CEMENT TOP AT: 1850' TUBING SIZE/GRADE/WT.: 2-7/8" / J-55 NO. OF JOINTS: 197 jts (6400.63') 4736-4746 TUBING ANCHOR: 6412.63' KB NO. OF JOINTS: 1 jts (32.56') SEATING NIPPLE: 2-7/8" (1.10') SN LANDED AT: 6447.99' KB NO. OF JOINTS: 2 jts (64.33') 5438-5445 TOTAL STRING LENGTH: EOT @ 6513.87' KB 5488-5498' 5544-55623 PERFORATION RECORD SUCKER RODS 4-25-05 6396-6400' 4 JSPF 16 holes 6454-6461 4 JSPF 28 holes 5-2-05 POLISHED ROD: 1-1/2" x 22" 5-2-05 6279-62931 4 JSPF 56 holes SUCKER RODS: 1-8', 1-6' & 1-2' x 7/8" ponies, 97-7/8" scrapered rods, 143-5-2-05 5544-5562' 72 holes 3/4" plain rods, 10-3/4" scrapered rods, 6-1 1 1/2" weighted rods. 40 holes 5-2-05 5488-54981 4 ISPF PUMP SIZE: 2-1/2" x 1-1/2" x 14.5' RHAC w/ SM plunger 6279-62933 5-2-05 5438-5445' 4 JSPF 28 holes STROKE LENGTH: 84" 4736-4746 4 JSPF -40 holes 5-3-05 PUMP SPEED, SPM: 6 SPM 6396-6400 Anchor @ 6412' SN @ 6447' 6454-6461 EOT @ 6546' NEWFIELD PBTD @6634' Fenceline Federal 3-24-8-16 SHOE @ 6670' 676' FNL & 1989' FWL NE/NW Section 24-T8S-R16E TD @ 6685' Duchesne Co, Utah API #43-013-32363; Lease #UTU-74868

# Monument Butte Federal #7-23-8-16

Spud Date: 12/16/99 Put on Production: 1/19/00 GL: 5365' KB: 5375'

Wellbore Diagram

Initial Production:104 BOPD

### SURFACE CASING

CSG SIZE: 8-5/8" GRADE: J-55 WEIGHT: 24#

LENGTH: 7 jts. (314.29')
DEPTH LANDED: 326.08'
HOLE SIZE: 12-1/4"

CEMENT DATA: 141 sxs Class "G" w/ 2% CaCl2 & 0.25#/sk celloflake. 15.8 ppg W 1.17 cf/sk yield, Est. 2 bbl to surface

### PRODUCTION CASING

CSG SIZE: 4-1/2" GRADE: J-55 WEIGHT: 11.6# LENGTH: 142 jis. (5950.6') DEPTH LANDED: 5948.2' KB HOLE SIZE: 7-7/8"

CEMENT DATA:

340 sxs Premlite II + 0.5% S.M. + 10% Gel +3#/sk CSE + 2#/sk Kol-Seal + 3% KCl + 0.25#/sk cello-flake

U.Z3#/SK Ceno-nake

525 sxs 50/50 Poz + 3% KCl + 0.25#/sk cello-flake + 2% Gel + 3% S.M.

CEMENT TOP AT: 528' per CBL

#### **TUBING**

SIZE/GRADE: 2-3/8" LS
NO. OF JOINTS: 169 jts
TUBING ANCHOR: 5215.42' KB
SEATING NIPPLE: (1.10') 5251'
TOTAL STRING LENGTH: EOT @ 5312.52' KB
SN LANDED AT: 5250.61' KB

### SUCKER RODS

POLISHED ROD: 1-1/4" x 22'

SUCKER RODS: 1-8', 1-4', 1-2' X 3/4" Pony Rods, 90 3/4" Scrapered Rods, 105 3/4" Plain rods, 10 3/4" Scrapered Rods, 4 1-1/2" Weight Rods

PUMP SIZE: 2" x 1-1/2" x 16' RHAC rod pump w/ SM plunger

STROKE LENGTH: 72"

PUMP SPEED, SPM: 6 SPM

LOGS:DIGL, GR, SP, Compensated Density, CBL-GR

# NEWFIELD

### Monument Butte Federal #7-23-8-16

1861' FNL & 1932' FEL

SW/NE Section 23-T8S-R16E

Duchesne Co, Utah

API #43-013-32100; Lease #UTU-76560

# Anchor @ 5215' 5241'-5244' 5258'-5267' SN @ 5251' KB EOT @ 5313' KB Sand Top @ 5837' KB PBTD @ 5884' KB TD @ 5947'

#### .....

1/17/00 5241'-5267'

FRAC JOB

Frac D sand as follows: 50,000# 20/40 sand in 354 bbls Viking 1-25 fluid. Perf Brokedown @ 2450 psi. Treated @ avg press of 1800 psi, w/avg rate of 26 BPM. ISIP: 1880 psi, 5-min 1716 psi., 10-min 1582 psi. Flowback on 12/64 choke for 3 hours and died.

### PERFORATION RECORD

1/15/00 5241'-5244' 4 SPF 12 holes 1/15/00 5258'-5267' 4 SPF 36 holes

# Monument Butte Federal #8-23-8-16

Spud Date: 11/28/00 Put on Production: 12/31/99 GL: 5393.6' KB: 5403.6'

API #43-013-32101; Lease #UTU-76560

Wellbore Diagram

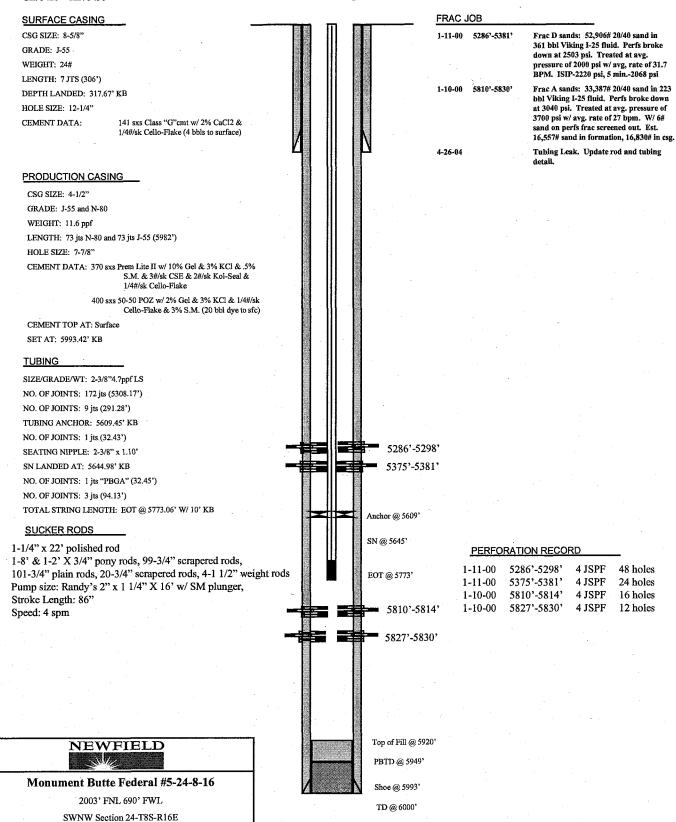
#### FRAC JOB SURFACE CASING CSG SIZE: 8-5/8" 12-23-99 5455'-5490' Frac C sands: 62,802# 20/40 sand in 513 bbl Viking I-25 fluid. Perfs broke GRADE: J-55 down at 2750 psi. Treated at avg. pressure of 1700 psi w/ avg, rate of 26 WEIGHT: 24# BPM. ISIP-2500 psi, 5 min.-2400 psi. LENGTH: 7 JTS (313') Frac D sands: 70,255# 20/40 sand in 477 12-23-99 5287'-5369' DEPTH LANDED: 324.84' KB bbl Viking I-25 fluid. Perfs broke down HOLE SIZE: 12-1/4" at 2100 psi. Treated at avg. pressure of 1350 psi w/ avg. rate of 30 bpm. ISIP-CEMENT DATA: 141 sxs Class "G"cmt w/ 2% CaCl2 & 1/4#/sk Cello-2150 psi, 5 min.-2030 psi. Flake (3 bbls to surface) Pump change. Update rod and tubing 1/10/03 details. PRODUCTION CASING CSG SIZE: 5-1/2" GRADE: J-55 WEIGHT: 15.5 ppf LENGTH: 147 jts (6279') HOLE SIZE: 7-7/8\* CEMENT DATA: 311 sxs Prem Lite II w/ 10% Gel & 3% KCl &0.5% S.M. & 3#/sk CSE & 2#/sk Kol-Seal & 1/4#/sk Cello-Flake 522 sxs 50-50 POZ w/ 2% Gel & 3% KCl & 3% S.M. & 1/4#/sk Cello-Flake 20 bbl dye to sfc. CEMENT TOP AT: SET AT: 6290.63' KB SIZE/GRADE/WT: 2-7/8"/ 6.5/"B" M-50 NO. OF JOINTS: 179 jts (5524') TUBING ANCHOR: 5534' KB NO. OF JOINTS: 3 jts (93.63') 5287'-5299' SEATING NIPPLE: 2-7/8" 1.10' SN LANDED AT: 5630.43' KB NO. OF JOINTS: 2 jts (62.21') 5364'-5369' TOTAL STRING LENGTH: EOT @ 5694.19' SUCKER RODS 5455-54583 PERFORATION RECORD POLISHED ROD: 1-1/2"x22" 5468'-5470" SUCKER RODS: 6 1-1/2" weight bars, 10-3/4" scrapered rods, 112-3/4" plain 12-23-99 5287'-5299' 4 JSPF 48 holes rods, 96-3/4" scrapered rods, 1-8', 1-2' x 3/4" pony rods 5364'-5369' 12-23-99 4 JSPF 20 holes 5476'-5482' PUMP SIZE: Randy's 2-1/2" x 1-1/2" x 16' RHAC 5484'-5490' 12-23-99 5455'-5458' 4 JSPF 12 holes STROKE LENGTH: 76" 12-23-99 5468'-5470' 4 JSPF 8 holes 5476'-5482' 4 JSPF 24 holes PUMP SPEED, SPM: 3.5 SPM 12-23-99 Anchor @ 5534' 12-23-99 5484'-5490' 4 JSPF 24 holes LOGS: DIGL, SP, GR, CAL, Neutron, Comp. Density SN @ 5630' EOT @ 5694' Top of Fill @ 6110' Inland Inland Resources Inc. PBTD @ 6245' Monument Butte Federal #8-23 SHOE @ 6291' 1787' FNL 535' FEL SENE Section 23-T8S-R16E TD @ 6305' Duchesne Co, Utah

# Monument Butte Federal #5-24-8-16

Spud Date: 12/7/99 Put on Production: 1/15/00 GL: 5426' KB: 5436'

Duchesne Co, Utah
API #43-013-32099; Lease #UTU-74868

#### Wellbore Diagram



# Attachment E-8

# Hawkeye #9-23-8-16

Spud Date: 1/26/98 Put on Production: 3/4/98 GL: 5453' KB:5465'

### SURFACE CASING

CSG SIZE: 8-5/8" GRADE: J-55 WEIGHT: 24# LENGTH: 7 jts.(292') DEPTH LANDED: 292' GL HOLE SIZE: 12 - 1/4"

CEMENT DATA: 120 sxs Premium, est 6 bbls to surface

#### PRODUCTION CASING

CSG SIZE: 5-1/2" GRADE: J-55 WEIGHT: 15.5# LENGTH: 148 jts. (6326')KB HOLE SIZE: 7-7/8"

CEMENT DATA: 460 sxs Hibond mixed & 413 sxs thixotropic

CEMENT TOP AT:

#### <u>TUBING</u>

SIZE/GRADE/WT .: 2-7/8" / M-50 / 6.5# NO. OF JOINTS: 158 jts (4917') SEATING NIPPLE: 2-7/8" (1.10') SN LANDED AT: 4931' PACKER: 4931' TOTAL STRING LENGTH: EOT @ 4933' Injection Wellbore Diagram

Packer @ 4931'

5227'-29' 5235'-52' 5309'-18' 5320'-26'

5755'-68

6188'-92' 6219' - 25' 6247' - 53' 6258' - 61'

SN @ 4931'

EOT @ 4933' PBTD @ 6301' TD @ 6326'

Initial Production: 148 BOPD, 191 MCFPD, 19 BWPD

FRAC JOB

2-24-98 6188'-6261' Frac CP sand as follows:

102,300# 20/40 sand in 518 bbls of Delta. Breakdown @ 2753 psi, treated @ avg rate 30.2 bpm w/avg press of 2600 psi. ISIP 3820 psi, 5-min 2707 psi. Flowback on 12/64" ck for 3-1/2 hrs & died.

2-26-98 5755'-5768'

Frac A sand as follows: 112,400# of 20/40 sand in 575 bbls of Delta. Breakdown @ 3370 psi. Treated @ avg rate 30.2 bpm w/avg press of 2200 psi. ISIP-2409 psi. 5-min 2098 psi.

Flowback on 12/64" ck. for 4-1/2 hrs & died.

5227'-5326' Frac D sand as follows: 3-1-98

122,400# of 20/40 sand in 583 bbls of Delta. Breakdown @ 1649 psi. Treated @ avg rate 30.7 bpm w/avg press of 2000 psi. ISIP-3356 psi. 5-min 2350 psi. Flowback on 12/64" ck. for 1-1/2 hr & died.

7/22/01 Well converted to injector.

7/23/01 MIT performed on well. Mr. Ingram from

DOGM was not present for test.

7/7/06 5 Year MIT completed and submitted.

NEWFIELD

Hawkeye #9-23-8-16 1980 FSL & 660 FEL NESE Section 23-T8S-R16E Duchesne Co, Utah API #43-013-31984; Lease #U-34346

PERFORATION RECORD 2/21/98 6258'- 6261' 4 JSPF 6247'- 6253' 2/21/98 4 JSPF 6219'- 6225'

24 holes 2/21/98 6188'- 6192' 5755'- 5768' 4 JSPF 16 holes 2/26/98 4 JSPF 12 holes 2/28/98 5320'- 5326' 4 JSPF 24 holes 5309'- 5318' 4 JSPF 36 holes 2/28/98 5235'- 5252' 4 JSPF 68 holes 2/28/98 5227' - 5229' 4 JSPF 8 holes

16 holes

24 holes

# **Analytical Laboratory Report for:**



# **NEWFIELD PRODUCTION COMPANY**

**Account Representative:** Mecham, Kelly

# **Production Water Analysis**

Listed below please find water analysis report from: RUN C, STATE 1-23-8-16 TREATER

Lab Test No:

2006403795

Sample Date:

11/21/2006

Specific Gravity: 1.011

TDS:

14953

pH:

8.20

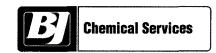
Cations:	mg/L	as:	
Calcium	20.00	(Ca <sup>⁺⁺</sup> )	
Magnesium	36.00	(Mg <sup>++</sup> )	
Sodium	5681	、o (Na <sup>+</sup> )	
Iron	5.40	`(Fe <sup>±±</sup> )	
Manganese	0.10	(Mn <sup>±+</sup> )	
Anions:	mg/L	às:	
Bicarbonate	610	(HCO <sub>3</sub> )	
Sulfate	100	(SO <sub>4</sub> ")	
Chloride	8500	(CI)	
Gases:			
Carbon Dioxide		(CO <sub>2</sub> )	
Hydrogen Sulfide	0	(H <sub>2</sub> S)	

Attachment F 20f6

NEWFIELD PRODUCTION COMPANY

Lab Test No: 2006403795

# DownHole SAT<sup>™</sup> Scale Prediction @ 130 deg. F



Mineral Scale	Saturation Index	Momentary Excess (lbs/1000 bbls)
Calcite (CaCO3)	2.81	4.1
Aragonite (CaCO3)	2.34	3.53
Witherite (BaCO3)	0	-7.35
Strontianite (SrCO3)	0	-2.21
Magnesite (MgCO3)	6.5	5.53
Anhydrite (CaSO4)	.00106	-864.25
Gypsum (CaSO4*2H2O)	.00138	-854.26
Barite (BaSO4)	0	62
Celestite (SrSO4)	0	-131.32
Fluorite (CaF2)	0	-31.73
Calcium phosphate	0	00378
Hydroxyapatite	0	-359.27
Silica (SiO2)	0	-80.6
Brucite (Mg(OH)2)	.00781	-1.78
Magnesium silicate	0	-125.21
Iron hydroxide (Fe(OH)3)	59124	< 0.001
Strengite (FePO4*2H2O)	0	>-0.001
Siderite (FeCO3)	646.71	1.2
Halite (NaCl)	< 0.001	-188335
Thenardite (Na2SO4)	< 0.001	-54186

### Interpretation of DHSat Results:

The Saturation Index is calculated for each mineral species independently and is a measure of the degree of supersaturation (driving force for precipitation) under the conditions modeled. This value ranges from 0 to infinity with 1.0 representing a condition of equilibrium where scale will neither dissolve nor precipitate. Values less than 1.0 are undersaturated and values greater than 1.0 are supersaturated. The scale is logarithmic, i.e. a Saturation Index of 3 is 10 times more saturated than a value of 2.

The Momentary excess is a measure of how much scale would have to precipitate to bring the system back to a non-scaling condition. This value ranges from negative (dissolving) infinity to positive (precipitating) infinity. The Momentary Excess represents the amount of scale possible while the Saturation Level represents the probability that scale will form.

# DownHole SAT(tm) MIXED WATER CHEMISTRY

# Attachment F 3 of 6

1) Johnson Water

2) State 1-23-8-16

Report Date: 12-13-2006

CATIONS		ANIONS	
Calcium (as Ca)	125.00	Chloride (as Cl)	4447
Magnesium (as Mg)	123.00	Sulfate (as SO4)	97.50
Barium (as Ba)	0.00	Dissolved CO2 (as CO2)	10.28
Strontium (as Sr)	0.00	Bicarbonate (as HCO3)	557.85
Sodium (as Na)	2841	Carbonate (as CO3)	61.28
Iron (as Fe)	3.25	H2S (as H2S)	0.00
Manganese (as Mn)	0.0500	·	

### **PARAMETERS**

рН	8.11
Temperature (°F)	130.00
Density(g/mL)	1.00
Pressure(atm)	1.00
Calculated T.D.S.	8267
Molar Conductivity	12048

BJ Chemical Services Roosevelt, Utah

# DownHole SAT(tm) MIXED WATER DEPOSITION POTENTIAL INDICATORS

Attachment F 4 of 6

1) Johnson Water

2) State 1-23-8-16

Report Date: 12-13-2006

SATURATION LEVEL		FREE ION MOMENTARY	FYCFCC	(mqq)
	10 15		EXCEDD	
Calcite (CaCO3)	19.15	Calcite (CaCO3)		16.60
Aragonite (CaCO3)	15.92	Aragonite (CaCO3)		16.40
Witherite (BaCO3)	0.00	Witherite (BaCO3)		-17.63
Strontianite (SrCO3)	0.00	Strontianite (SrCC	3)	-5.38
Magnesite (MgCO3)	23.36	Magnesite (MgCO3)		14.15
Anhydrite (CaSO4)	0.0160	Anhydrite (CaSO4)		-1294
Gypsum (CaSO4*2H2O)	0.0140	Gypsum (CaSO4*2H2C	)	-1576
Barite (BaSO4)	0.00	Barite (BaSO4)		-1.31
Magnesium silicate	0.00	Magnesium silicate	<b>!</b>	-333.95
Iron hydroxide (Fe(OH)3)	24526	Iron hydroxide (Fe	(OH)3)	< 0.001
Iron sulfide (FeS)	0.00	Iron sulfide (FeS)	Iron sulfide (FeS)	
SIMPLE INDICES		BOUND IONS	TOTAL	FREE
Langelier	1.49	Calcium	125.00	104.56
Stiff Davis Index	1.62	Barium	0.00	0.00
		Carbonate	61.28	10.54
		Phosphate	0.00	0.00
		Sulfate	97.50	73.38

### OPERATING CONDITIONS

Temperature (°F)
Time(mins)

130.00

3.00

BJ Chemical Services Roosevelt, Utah 01-28-2006 16:59

From-BJ UNICHEM RSYLT UT

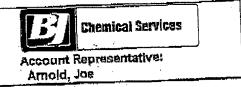
435 722 5727

T-612 P.002/007 F-156

Attachment F

50f6

Analytical Laboratory Report for:
NEWFIELD PRODUCTION COMPANY



# **Production Water Analysis**

Listed below please find water analysis report from: Sand Wash Inj Fac, SAND WASH INJECTION FACILITY WATER TANKS

Lab Test No:

2006400221

Sample Date:

01/17/2006

Specific Gravity:

1.001

\_\_\_

TDS: pH: 378 7,60

Cations:	mg/L	as:	
Calcium	00.08	(Ca ***)	•
Magnesium	12.00	(Mg ~)	
Sodium	23	(Na )	
Iron	1,30	(Fe <sup>++</sup> )	
Manganese	0.00	(Mn <sup>++</sup> )	a.
Anions:	mg/L	as:	
Bicarbonate	122	(HCO <sub>3</sub> )	
Sulfate	105	(SO <sub>4</sub> ")	
Chioride	25	(CI)	
Gases:			
Carbon Dioxide		(CO <sup>2</sup> )	
Hydrogen Sulfide	O	(H <sub>2</sub> S)	

16:59 01-23-2006

From-BJ UNICHEM RSYLT UT

435 722 5727

T-812 P.003/007

Attachment F 6 of 6

NEWFIELD PRODUCTION

Lab Test No: 2006400221

COMPANY

DownHole SAT<sup>™</sup> Scale Prediction @ 130 deg. F



Interpretation of DHSat Results:

The Saturation Index is calculated for each mineral species independently and is a measure of the degree of supersaturation (driving force for precipitation) under the conditions modeled. This value ranges from 0 to infinity with 1.0 representing a condition of equilibrium where scale will neither dissolve nor precipitate. Values less than 1.0 are undersaturated and values greater than 1.0 are supersaturated. The scale is logarithmic, i.e. a Saturation index of 3 is 10 times more

saturated than a value of 2. The Momentary excess is a measure of how much scale would have to precipitate to bring the system back to a non-scaling condition. This value ranges from negative (dissolving) infinity to positive (precipitating) infinity. The Momentary Excess represents the amount of scale possible while the Saturation Level represents the probability that scale will form.

## **Attachment "G"**

# Monument Butte Federal #1-23-8-16 Proposed Maximum Injection Pressure

Frac Interval				Calculated Frac	
(fe	eet)	Avg. Depth	ISIP	Gradient	
Top	<b>Bottom</b>	(feet)	(psi)	(psi/ft)	Pmax
5266	5364	5315	2600	0.93	2566 ←
				Minimum	2566

Calculation of Maximum Surface Injection Pressure

Pmax = (Frac Grad -(0.433\*1.015)) x Depth of Top Perf where pressure gradient for the fresh water is .433 psi/ft and specific gravity of the injected water is 1.015.

Frac Gradient = (ISIP +(0.433\*Top Perf.))/Top Perf.

**Please note:** These are existing perforations; additional perforations may be added during the actual conversion procedure.



Attachment G-1

10f3

### DAILY COMPLETION REPORT

Completion Day: 03 WELL NAME: MBF 1-23-8-16 Report Date: 2/23/00 Present operation: Swab well down/ Perf D sds / Swab well Rig: KES #57 **WELL STATUS** Csq PBTD: 5883' Surf Csg: 8 5/8 @ 317' KB Production csg: 4 1/2" 11.6# J-55 @ 5922' KB BP/Sand PBTD: 5400' Grd: Pkr/EOT: Tbg: PERFORATION RECORD SPF/#shots Zone Perfs SPF/#shots **Zone** Perfs 5446-5449' C/B sds 4/12 5469-5474 4/20 C/B sds C/B sds 5614-5621' 4/28 CHRONOLOGICAL OPERATIONS Date Work Performed: 22-Feb-00 SITP: SICP: Bleed gas off csg. NU BJ Services "Ram head" flange to BOP RU BJ to frac C/B sds. Hole filled W/ 68 bbls pad fluid. Perfs broke dn @ 2880 psi. Treated @ ave press of 3200 psi W/ ave rate of 28 BPM. With sand on perfs, pressure increased rapidly. No rate increase was available. Sand was cut @ blender @ 6 ppg. Flushed 1470 gals before Max pressure was achieved and screened out W/5# sd on perfs. Pumped 45,516# 20/40 sd in 361 bbls Viking I-25 fluid & 16 bbls fluid ahead of frac. Est 36,451# sand in perfs, 9,065# sd left in csg. RD BJ. Discovered malfunction W/ BOP. Flowback est 5 BTF. TIH W/ NC & tbg. Flow & displace add'l 18 BTF on TIH. Stage out sd laden fluid @ 3000'. Tag solid sd @ 5441'. C/O sd to PBTD @ 5883'. Circ hole clean. No fluid loss. TOH W/ tbg & NC. RU Schlumberger and set 4 1/2" "HE" RBP @ 5400'. RD W.L.T. ND BOP (send for repairs). SIFN W/ est 354 **FLUID RECOVERY (BBLS)** Starting oil rec to date: Starting fluid load to be recovered: Fluid lost/recovered today: 354 Oil lost/recovered today: Cum oil recovered: Ending fluid to be recovered: 354 FTP: Final Fluid Rate: Final oil cut: FFL: Choke: STIMULATION DETAIL COSTS KES rig \$2,277 Sand frac Base Fluid used: Viking I-25 Job Type: **BOP** \$130 **BJ Services** Company: Schlumberger \$1,200 Procedure or Equipment detail: **BJ Services** \$22,338 4000 gals of pad 1000 gals W/ 1-5 ppg of 20/40 sand "HE" RBP rental \$600 IPC Supervision 8702 gals W/ 5-6 ppg of 20/40 sand (of 10,000 gal stage) \$200 Flush W 1470 gal of slick wtr (2074 gals short of top perf) \*\* Screened out W/ 5# sand on perfs. Est 36,451# sand in formation, 9,065# sand left in csg Max TP: 4200 Max Rate: 29 BPM Total fluid pmpd: 361 bbls Avg TP: 3200 Avg Rate: 28 BPM Total Prop pmpd: 45,516# \$26,745 15 min: DAILY COST: ISIP: 5 min: 10 min: Gary Dietz TOTAL WELL COST: \$197,951 Completion Supervisor:



Attachment G-1 2 of 3

WELL NAME: MBF 1-23-8-16	Report Date:	_ <u>2/24/00</u>	on Day: <u>04</u>
Present operation: Frac & flowback D sds		Rig: KES #57	<u> </u>
WE	LL STATUS		······································
	1/2" 11.6# J-55 @ 5	O22' KB Csg PBT	D: <b>5883'</b>
Tbg: Size: 2 3/8 Wt: 4.7# Grd:	"LS" Pkr/EOT:	0 BP/Sand PBTI	D: <b>5400'</b>
	RATION RECORD		
Zone Perfs SPF/#shots	Zone 2/D	Perfs	SPF/#shots
D sds 5266-5274' 2/16	C/B sds	<u>5446-5449'</u> 5469-5474'	4/12
D sds         5277-5282'         2/10           D sds         5286-5288'         2/4	C/B sds C/B sds	<u>5469-5474</u> 5614-5621'	4/20 4/28
D sds 5339-5364' 2/50	<u> </u>		
			*******************************
CHRONOLO	GICAL OPERATION	S	
Date Work Performed: 23-Feb-00		SITP: SIC	P: 0
NU Cameron 6" 5M BOP. Fill csg W/ 10 BW. Press	test BOP seals to 350		
Displaced 10 BW on TIH. Swab FL dn to 4750'. Rec.			
5266-74', 5277-82', 5286-88' & 5339-5364' W/ 2 jspf (			
equip. IFL @ 2900'. Made 4 swab runs rec 19 BTF (e			
TOH W/ tbg & NC. SIFN W/ est 280 BWTR.			
	ECOVERY (BBLS)		
	Starting oil rec to date:	0	
	Dil lost <u>/recovered</u> toda		
	Cum oil recovered: oke: Fir	11 In all Fluid Rate: Find	al oil cut: 60%
	OKeFII		ai on cut. <u>0070</u>
STIMULATION DETAIL		<u>COSTS</u>	
Base Fluid used: Job Type:		KES rig	\$2,124
Company:		BOP	\$130
Procedure or Equipment detail:		Schlumberger	\$2,750
		Trucking (BOP)	\$150
		IPC Supervision	\$200
		******	· · · · · · · · · · · · · · · · · · ·
	•	<u> </u>	
May TD. May Dat. T-4-1 Golden	·	· ·	
Max TP: Max Rate: Total fluid pr			
Avg TP: Avg Rate: Total Prop p		DAIL V OCCT	<b></b>
ISIP: 5 min: 10 min:	15 min:	DAILY COST:	\$5,354
Completion Supervisor: Gary Dietz		TOTAL WELL COST:	\$203,305



## **DAILY COMPLETION REPORT**

Attachment G-1 3 of 3

WELL NAME: MBF 1-23-8-16 Report Date: 2/25/00 Completion Day: 05 Present operation: Swab well/Trip production tbg Rig: KES #57 WELL STATUS Surf Csa: 8 5/8 317' KB Production csg: 4 1/2" 11.6# J-55 @ 5922' KB Csq PBTD: 5883' Tbg: 4.7# Grd: Pkr/EOT: 5580' BP/Sand PBTD: 5746' PERFORATION RECORD **Zone Perfs** SPF/#shots Zone SPF/#shots **Perfs** D sds 5266-5274" 2/16 C/B sds 5446-5449' 4/12 D sds 5277-5282' 2/10 C/B sds 5469-5474' 4/20 D sds 5286-5288' 2/4 C/B sds 5614-5621' 4/28 D sds 5339-5364' 2/50 CHRONOLOGICAL OPERATIONS Date Work Performed: 24-Feb-00 SITP: SICP: 650 SICP-650 psi (leave on well). RU.BJ Services and frac D.sds W/-138,783# 20/40 sd in 696 bbls Viking I-25 fluid. Hole filled W/ 22 bbls pad fluid (est 1500 entry overnight). Perfs broke back @ 2750 psi @ 27 BPM. Had some visible breaks. Treated @ ave press of 2300 psi W/ ave rate of 34 BPM. ISIP-2600 psi, 5 min-2152 psi. RD BJ. Flowback D sd frac on 12/64" choke for 3 hrs & died. Rec 98 BTF (est 14% of D sd frac load) W/ tr oil & gas @ end. Well flowing small amount. TIH W/ RH & tbg. Circ out oil & gas @ 3000'. Flow & displace add'l 24 bbls on TIH. Tag sd @ 5347'. Rev circ out sd to RBP @ 5400'. Lost est 55 BW during circ. Release plug. TOH W/ tbg. LD plug. TIH W/ NC & tbg. Tag sd @ 5746'. Pull EOT to 5580'. SIFN W/ est 909 BWTR. FLUID RECOVERY (BBLS) Starting fluid load to be recovered: 280 Starting oil rec to date: Fluid lost/recovered today: 629 Oil lost/recovered today: Ending fluid to be recovered: 909 Cum oil recovered: 11 FTP: Choke: Final Fluid Rate: Final oil cut: STIMULATION DETAIL COSTS Base Fluid used: Viking I-25 Job Type: Sand frac KES rig \$2,397 Company: **BJ Services** BOP \$130 Procedure or Equipment detail: BJ Services \$33,006 4000 gals of pad Fuel gas (+/-400 mcf) \$1,200 1000 gals W/ 1-5 ppg of 20/40 sand Frac head rental (est) \$200 12,000 gals W/ 5-7 ppg of 20/40 sand Water & truck \$200 8882 gals W/ 7-9 ppg of 20/40 sand Frac tks (4 X 5 days) \$200 Flush W/ 3360 gals of slick water IPC Supervision \$200 Max TP: 3374 Max Rate: 35 BPM Total fluid pmpd: 696 bbls Avg TP: 2300 Avg Rate: 34 BPM Total Prop pmpd: 138,783# ISIP: 2600 5 min: 2152 15 min: 10 min: DAILY COST: \$37,533 Completion Supervisor: Gary Dietz **TOTAL WELL COST:** \$240.838

## ATTACHMENT H

# WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1.		Set CIBP @ 5171'.
2.	Plug #1	Set 100' plug on top of CIBP using 12 sx Class G cement.
3.	Plug #2	Set 200' plug from 2000'-2200' with 25 sx Class "G" cement.
4.		RU perforators and perforate 4 JSPF @ 367'.
5.	Plug #3	Circulate 118 sx Class G cement down 4-1/2" casing and up the 4-1/2" x 8-5/8" annulus to surface.

The approximate cost to plug and abandon this well is \$33,025.

# Monument Butte Federal #1-23-8-16

Spud Date: 2/03/00 Put on Production: 3/22/00 GL: 5341' KB: 5351'

### Proposed P & A Wellbore Diagram

Casing Shoe @ 317

Cement top @ 532'

### SURFACE CASING

CSG SIZE: 8-5/8" GRADE: J-55 WEIGHT: 24#

LENGTH: 7 JTS (305.6')
DEPTH LANDED: 317.45'

HOLE SIZE: 12-1/4"

CEMENT DATA: 141 sx Class "G"cmt w/ 2% CaCl2 and

1/4#/sk Cello-Flake (5 bbls to surface)

Circulate 118 sx Class G Cement down 4 -1/2" casing and up the 4-1/2" x 8-5/8" annulus

Perforate 4 JSPF @ 367'

#### PRODUCTION CASING

CSG SIZE: 4-1/2" GRADE: J-55 WEIGHT: 11.6# LENGTH: 137 jts (5910') SET AT: 5921.76' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 350 sxs Prem Lite II w/ 10% Gel & 3% KCl

550 sxs 50-50 POZ w/ 2% Gel & 3% KCl

CEMENT TOP AT: 532'

200' Balanced Plug (25 sx) Class G Cement over water zone 2000'-2200°

100' (12 sx) Class G Cement plug on top of CIBP CIBP @ 5171'

5277'-5282' 5286'-5288'

5266'-5274'

5339-5364'

5446'-5449' 5469'-5474'

Metal trash @ 5508'

5614'-5621'

Top of fill @ 5508'

PBTD @ 5883'

TD @ 5966'

# NEWFIELD

### Monument Butte Federal #1-23-8-16

660' FNL & 660' FEL
NE/NE Section 23-T8S-R16E
Duchesne Co, Utah
API #43-013-32093; Lease #UTU-76560

FORM 3160-5 (September 2001)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

BUREAU OF LAND MANAGEMENT
SUNDRY NOTICES AND REPORTS ON WELLS

FORM APPROVED OMB No. 1004-0135 Expires January 31,2004

5. Lease Serial No.

	I IND HOPD WIND WELD	I CIO OIL MEEE		010-70300		
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.					ee or Tribe Name.	
SUBMIT IN TRIPLICATE - Other Instructions on reverse side					7. If Unit or CA/Agreement, Name and/or	
1. Type of Well  Oil Well  Gas Well  Name of Operator	Other			8. Well Name and	No. S BUTTE FED 1-23-8-16	
NEWFIELD PRODUCTION COMPANY  3a. Address Route 3 Box 3630			code)	9. API Well No. 4301332093 10. Field and Poo	l, or Exploratory Area	
4. Location of Well (Footage, 660 FNL 660 FEL  NENE Section 23 T8S R16E		,	MONUMENT BUTTE 11. County or Parish, State			
	K APPROPRIATE BOX(E	S) TO INIDICATE NA	TURE OF N	OTICE, OR OT		
TYPE OF SUBMISSION		TYPE	OF ACTION			
✓ Notice of Intent  ☐ Subsequent Report  ☐ Final Abandonment	Acidize Alter Casing Casing Repair Change Plans Convert to	Deepen Fracture Treat New Construction Plug & Abandon Plug Back	Reclamat Recomple Tempora Water Di	ete rily Abandon sposal	Water Shut-Off Well Integrity Other	
13. Describe Proposed or Completed O proposal is to deepen directionally	peration (clearly state all pertinent det or recomplete horizontally, give subsu	rface locations and measured and	true vertical depth	s of all pertinent mark	ers and zones. Attach the	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Newfield Production proposes to convert the above mentioned well from a producing oil well to an injection well.

I hereby certify that the foregoing is true and	Title	
correct (Printed/ Typed)  David Gerbig	Operations Engineer	
Signature Janual Alerha	Date 3-24007	
	EDERAL OR STATE OFFICE USE	
Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warran certify that the applicant holds legal or equitable title to those rights in the subject leavhich would entitle the applicant to conduct operations thereon.		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for	ny person knowingly and willfully to make to any department	ent or agency of the United

States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

FORM 3160-5 (September 2001)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0135 Expires January 31,2004

SUNDRY NOTICES AND REPORTS ON WELLS on not use this form for proposals to drill or to re-enter an

UTU-76560

5. Lease Serial No.

		als to drill or to re-enter a 3 (APD) for such proposa		If Indian, Allot	tee or Tribe Name.
SUBMIT IN TI	RIPLICATE - Other	r Instructions on reverse	side 7.	If Unit or CA/A	Agreement, Name and/or
. Type of Well	_				
Oil Well Gas Well  Name of Operator	Other			Well Name and MONUMENT	l No. Г BUTTE FED 1-23-8-16
NEWFIELD PRODUCTION CO	OMPANY		<del> </del>	API Well No.	
Ba, Address Route 3 Box 3630		3b. Phone (include a		4301332093	
Myton, UT 84052	Sec., T., R., M., or Survey I	435.646.3721		), Field and Poo MONUMENT	l, or Exploratory Area
Location of Well (Footage, 2 660 FNL 660 FEL	sec., 1., R., W., or Survey L	Description		i. County or Par	
NENE Section 23 T8S R16E				DUCHESNE, U	UT
12. CHECK	CAPPROPRIATE BO	OX(ES) TO INIDICATE N	IATURE OF NOT	CICE, OR OT	THER DATA
TYPE OF SUBMISSION		TY	PE OF ACTION		
✓ Notice of Intent  ☐ Subsequent Report  ☐ Final Abandonment	Acidize Alter Casing Casing Repair Change Plans Convert to	☐ Deepen ☐ Fracture Treat ☐ New Construction ☐ Plug & Abandon ☐ Plug Back	Production(S Reclamation Recomplete Temporarily Water Dispo	Abandon	Water Shut-Off Well Integrity Other
I hereby certify that the foregoing i	is true and	Title			
correct (Printed/ Typed) David Gerbig		Operations I	Engineer		
Signature A	Haller-	Date	34-07		
	THIS SPAC	CE FOR FEDERAL OR S	STATE OFFICE	USE	
Approved by Conditions of approval, if any, are attac	hed Approval of this notice 4	Titl	e	1Da	ate
Conditions of approval, it any, are attace certify that the applicant holds legal or a which would entitle the applicant to con	equitable title to those rights in		ice		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United

States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction



### State of Utah

### Department of Natural Resources

MICHAEL R. STYLER Executive Director

# Division of Oil, Gas & Mining

JOHN R. BAZA Division Director JON M. HUNTSMAN, JR. Governor

GARY R. HERBERT Lieutenant Governor

March 13, 2007

Newfield Production Company 1401 17<sup>th</sup> Street, Suite 1000 Denver, Colorado 80202

Re: <u>Fenceline Unit Well: Monument Butte Federal 1-23-8-16, Section 23, Township</u> 8 South, Range 16 East, Duchesne County, Utah

### Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

- 1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
- 2. Conformance with all conditions and requirements of the complete application submitted by Inland Production Company. However, the Division approved maximum injection pressure for this well is 2,000 psig.
- 3. A casing\tubing pressure test shall be conducted prior to commencing injection.

The Division will issue an Underground Injection Control Permit after the above stipulations have been meet. If you have any questions regarding this approval or the necessary requirements, please contact Brad Hill or Dan Jarvis at this office.

Sincerely,

Gil Hunt

Associate Director

cc: Dan Jackson, Environmental Protection Agency Bureau of Land Management, Vernal

Newfield Production Company, Myton

SITLA, Salt Lake City Duchesne County Ute Tribe, Ft Duchesne

# DIVISION OF OIL, GAS AND MINING UNDERGROUND INJECTION CONTROL PROGRAM PERMIT STATEMENT OF BASIS

Applicant: Newfield Production	on Company Well: N	Monument Butte Federal 1-23-8-16
Location: 23/8S/16E	API:	43-013-32093

Ownership Issues: The proposed well is located on Federal land. The well is located in the Fenceline Unit. Lands in the one-half mile radius of the well are administered by the BLM. The Federal Government, Ute Tribe, Duchesne County, SITLA and multiple individuals are the mineral owners within the area of review. Newfield and other various individuals hold the leases in the unit. Newfield has provided a list of all surface, mineral and lease holders in the half-mile radius. Newfield is the operator of the Fenceline Unit. Newfield has submitted an affidavit stating that all owners and interest owners have been notified of their intent.

Well Integrity: The proposed well has surface casing set at 317 feet and has a cement top at the surface. A 5½ inch production casing is set at 5,922 feet. A cement bond log demonstrates adequate bond in this well up to 3,550 feet. A 2 7/8 inch tubing with a packer will be set at 5,231 feet. Higher perforations will be opened at a later date. A mechanical integrity test will be run on the well prior to injection. There are 3 producing wells, 1 injection well and 3 shut-in wells in the area of review. All of the wells have evidence of adequate casing and cement. No corrective action will be required.

Ground Water Protection: According to Technical Publication No. 92 the base of moderately saline water is at an approximate depth of 350 feet. Injection shall be limited to the interval between 4,551 feet and 5,966 feet in the Green River Formation. Information submitted by Newfield indicates that the fracture gradient for the 1-23-8-16 well is .93 psi/ft which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 2,566 psig. The approved maximum pressure is 2,000 psig (the requested maximum pressure was 2,566 psig). The anticipated average injection pressure is 1100 psig. Injection at this pressure should not initiate any new fractures or propagate existing fractures in the adjacent confining intervals. Any ground water present should be adequately protected.

# Monument Butte Federal 1-23-8-16 page 2

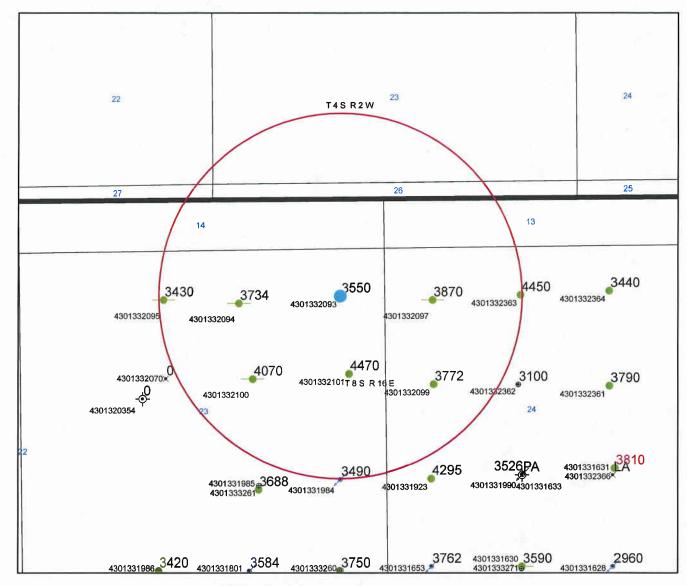
Oil/Gas& Other Mineral Resources Protection: The Board of Oil, Gas & Mining approved the Fenceline Unit January 24, 2007. Correlative rights issues were addressed at this time. Previous reviews in this area indicate that other mineral resources in the area have been protected or are not at issue.

**Bonding:** Bonded with the BLM.

Actions Taken and Further Approvals Needed: A notice of agency action has been sent to the Salt Lake Tribune and the Uinta Basin Standard. A casing/tubing pressure test will be required prior to injection. It is recommended that approval of this application be granted.

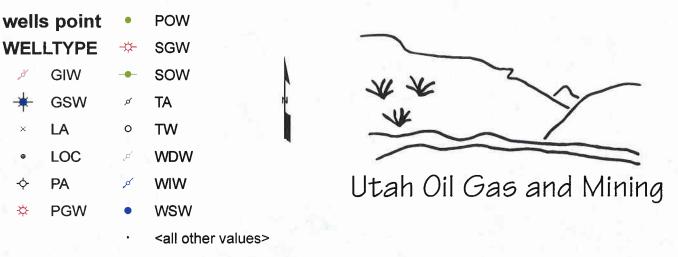
Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): Clinton Dworshak Date 03/12/2007
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Monument Butte Federal 1-23-8-16

# Legend

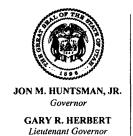


INSPECTION FORM 6

# STATE OF UTAH DIVISION OF OIL GAS AND MINING

# INJECTION WELL - PRESSURE TEST

Well Name:       Mon But/le 1-38-8-16       API Number: 4.3-0/3-32098         Qtr/Qtr:       Section:       Township:       Range:
Qtr/Qtr:
Lease: State Fee Federal Indian Date: 13/13/07
Initial Conditions:
Tubing - Rate: Shut IN Pressure: 148 psi
Casing/Tubing Annulus - Pressure: <u>// 30</u> psi
Conditions During Test:
Time (Minutes) Annulus Pressure Tubing Pressure
0 1/30 140
5 //30
10 //30 //40
15 <u>//30</u> <u>///0</u>
20
25 1130 140
140
Results: Pass/Fail
Conditions After Test:
Tubing Pressure: 140 psi
Casing/Tubing Annulus Pressure:psi
COMMENTS: TESTED AFTER CONVERSION to WIW. FAILED FIRST TEST
AND HOD WOR OF WELL. PRESSURE UP WI HOT OIL TRUCK - 6000 TEST ON GOUGE - STOW TO PRESSURE UP ON BROWN RECORDER
- 1/36/37 139 CANSE = 1/48/3
Tay Property
Operator Representative
1 10:30 Mil
Tested 110 mm
Operator Representative  Operator Representati
KEVIII DEC 17 2007



# State of Utah

### DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

# UNDERGROUND INJECTION CONTROL PERMIT Cause No. UIC-261

Operator:

Newfield Production Company

Well:

Monument Butte Federal 1-23-8-16

Location:

Section 23, Township 8 South, Range 16 East

County:

Duchesne

API No.:

43-013-32093

Well Type:

Enhanced Recovery (waterflood)

### Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on March 13, 2007.

2. Maximum Allowable Injection Pressure: 2,000 psig

3. Maximum Allowable Injection Rate: (restricted by pressure limitation)

4. Injection Interval: Green River Formation (4,551' - 5,966')

Approved by:

Gil Hunt

Associate Director

12-18-07

Date

Cc: Dan Jackson Environmental Protection Agency
Bureau of Land Management, Vernal
David Gerbig Newfield Production Company, Denver
Newfield Production Company, Myton
SITLA, Salt Lake City
Duchesne County
Ute Tribe, Ft Duchesne
Well File





December 19, 2007

Mr. Brad Hill State of Utah, DOGM 1594 West North Temple-Suite 1210 P.O. Box 145801 Salt Lake City, Utah 84114-5801 RECEIVED
DEC 2 4 2007

DIV. OF OIL, GAS & MINING

RE: Injection Conversion/MIT Monument Butte Federal 1-23-8-16 Sec.23, T8S, R16E API #43-013-32093

Mr. Brad Hill:

The subject well was converted from a producing oil well to a water injection well. An MIT was preformed. Please find enclosed the sundry, a copy of the tabular, work detail and chart. If you have any questions, please contact me at 435-646-4848.

Sincerely,

Callie Ross

**Production Clerk** 

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES

5. LEASE DESIGNATION AND SERIAL NUMBER	3
USA UTU-76560	

SUNDRY NOTICES AND REPORTS ON WELLS  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.  1. TYPE OF WELL:  OIL WELL  GAS WELL  OTHER  OTHER  6. IF INDIAN, ALLOTTEE OR TRIBE NAME: FENCELINE UNIT  8. WELL NAME and NUMBER: MONUMENT BUTTE FED 1-23-8-16  2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY  4301332093	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.  1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER  OTHER  OTHER  7. UNIT or CA AGREEMENT NAME: FENCELINE UNIT  8. WELL NAME and NUMBER: MONUMENT BUTTE FED 1-23-8-16  2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY  4301332093	
1. TYPE OF WELL: OIL WELL GAS WELL OTHER  ON API NUMBER: NEWFIELD PRODUCTION COMPANY  OIL WELL AME and NUMBER: MONUMENT BUTTE FED 1-23-8-16  4301332093	
OIL WELL GAS WELL OTHER MONUMENT BUTTE FED 1-23-8-16  2. NAME OF OPERATOR:  NEWFIELD PRODUCTION COMPANY  4301332093	
NEWFIELD PRODUCTION COMPANY 4301332093	
NEWFIELD PRODUCTION COMPANY 4301332093	
3. ADDRESS OF OPERATOR: PHONE NUMBER 10. FIELD AND POOL, OR WILDCAT:	
Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 435.646.3721 MONUMENT BUTTE	
4. LOCATION OF WELL:	
FOOTAGES AT SURFACE: 660 FNL 660 FEL COUNTY: DUCHESNE	4.
	***
OTR/OTR-SECTION TOWNSHIP RANGE MERIDIAN NENE, 23, T8S, R16E STATE: UT	~:
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	
TYPE OF SUBMISSION TYPE OF ACTION	_
ACIDIZE DEEPEN REPERFORATE CURRENT FORMATION	
NOTICE OF INTENT (Submit in Duplicate)  ALTER CASING  FRACTURE TREAT  SIDETRACK TO REPAIR WELL	-
Approximate date work with	
CHANGE TO PREVIOUS PLANS OPERATOR CHANGE TUBING REPAIR	
CHANGE TUBING PLUG AND ABANDON VENT OR FLAIR	
SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK WATER DISPOSAL	*.
(Submit Original Form Only)  X CHANGE WELL STATUS  PRODUCTION (START/STOP)  WATER SHUT-OFF	
Date of Work Completion:  COMMINGLE PRODUCING FORMATIONS  RECLAMATION OF WELL SITE  OTHER: -	
12/06/2007 RECOMPLETE - DIFFERENT FORMATION	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.	
This well was converted from a producing oil well to an injection well on 12/6/2007. On 12/12/07 Dennis Ingram with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. Permissic	n
was given at that time to perform the test 12/13/07. On 12/13/07 the csg was pressured up to 1130 psig and charted for 30 minutes	• /
with no pressure loss. The well was not injecting during the test. The tbg pressure was 140 psig during the test. There was a State	
representative available to witness the test.	
(Dennis Ingram)	*
API# 43-013-32093	
DECEMEN	
RECEIVED	
DEC 2 L Ann	~
DEC 2 4 2007	
But An au Ana	•
DIV. OF OIL, GAS & MINING	
	`*
of The Agree of the Property o	e e g
NAME (PLEASE PRINT) Callie Ross TITLE Production Clerk	
SIGNATURE (allie Roff DATE 12/19/2007	:

(This space for State use only)

# Mechanical Integrity Test Casing or Annulus Pressure Test

# **Inland Production Company**

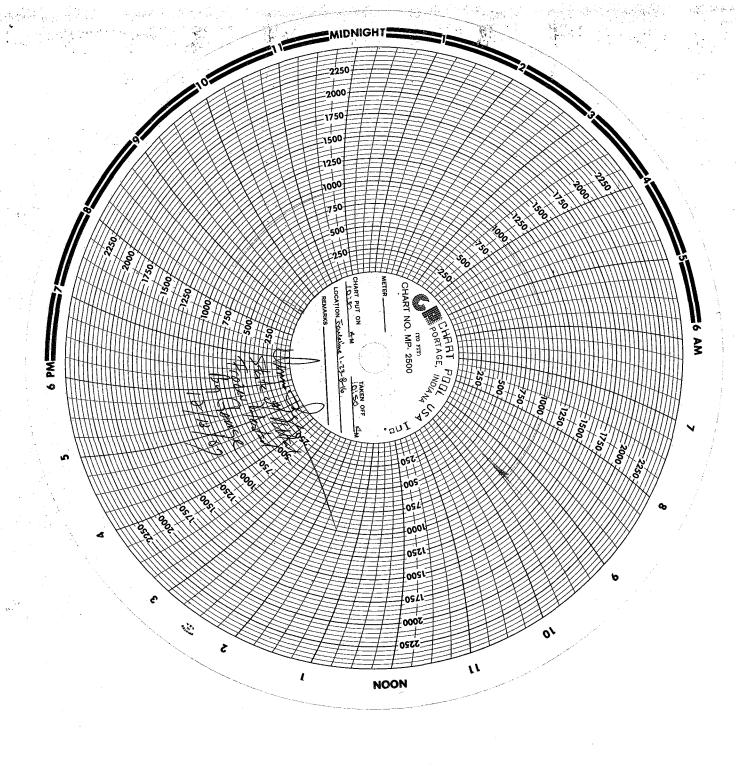
Rt. 3 Box 3630 Myton, UT 84052 435-646-3721

Witness: Test Conducted by: Jory Day 2	Date 12 / 13 / 07	Time 10;30	am pm
Well: MB 85 PANGE: 168 Sec 23 Well Location: 1-23-8-16	4	mungent Buste.	
	API No: 4	3-013-32093	

<u>Time</u>	Casing Pressure	<u> </u>
0 min	1130	psig
. 5	//36	psig
10	1/30	- psig
15	1130	- psig
20	1130	psig
25	1130	psig
30 min	[130	psig
35		psig
40		psig
45		psig
50		psig
55		psig
60 min		psig
Tubing pressure:	140	psig
Result:	Pass F	ail

Signature of Witness:

Signature of Person Conducting Test:



# FORM 3160-5

# UNITED STATES DEPARTMENT OF THE INTERIOR PURE ALL OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0137 Expires: July 31,2010

	DEPARTMENT OF THE			Expires: July 31,2010
	BUREAU OF LAND MANA		5. Lea	ase Serial No.
	Y NOTICES AND REPO		USA	A UTU-76560
Do not use a	this form for proposals to vell.  Use Form 3160-3 (A	o ariii or to re-enter an PD) for such proposals	6. If In	ndian, Allottee or Tribe Name.
SUBMIT IN	N TRIPLICATE - Other	Instructions on page 2	7. If U	Init or CA/Agreement, Name and/or
			FENC	CELINE UNIT
1. Type of Well	_			SEDINE CIVI
Oil Well Gas Well	Other		8. Wel	Il Name and No.
2. Name of Operator			MON	NUMENT BUTTE FED 1-23-8-16
NEWFIELD PRODUCTION C	OMPANY			Well No.
3a. Address Route 3 Box 3630		3b. Phone (include are		332093
Myton, UT 84052	0 m n M 0 n	435.646.3721		eld and Pool, or Exploratory Area
4. Location of Well (Footage, 660 FNL 660 FEL	Sec., T., R., M., or Survey Descr	iption)		NUMENT BUTTE  bunty or Parish, State
			111.00	unity of Farish, State
NENE Section 23 T8S R16E			DUC	CHESNE, UT
12. CHECI	K APPROPRIATE BOX(I	ES) TO INIDICATE NA	TURE OF NOTICE	E, OR OTHER DATA
TYPE OF SUBMISSION		TYP	E OF ACTION	
	A sidire	Dagner	Production (Start/	/Resume)
Notice of Intent	Acidize Alter Casing	Deepen Fracture Treat	Reclamation	Well Integrity
_	i = -	New Construction	Recomplete	= ' '
Subsequent Report	Casing Repair		= :	
Final Abandonment	Change Plans  Convert to Injector	Plug & Abandon	Temporarily Abar Water Disposal	on injection
	Convert to Injector	Plug Back	water Disposar	
I hereby certify that the foregoing i	s true and	Title		
correct (Printed/ Typed)		Office Manager	r	
Kathy Chapman Signature	//	Date		
Sailes.	Masse	03/09/2009		
	THIS SPACE FO	OR FEDERAL OR ST.	ATE OFFICE USE	
Approved by  Conditions of approval, if any, are attact certify that the applicant holds legal or e which would entitle the applicant to con	quitable title to those rights in the sub			Date
Title 18 U.S.C. Section 1001 and Title 4 States any false, fictitious and fraudulen		ne for any person knowingly and w	BECFIVE	nent or agency of the United
States any raise, neutrons and nauditen	Commencing of representations as to a	A MIGHEL WIGHT ITS JURISDICTION		

(Instructions on page 2)

MAR 1 0 2009

Sundry Number: 31838 API Well Number: 43013320930000

	STATE OF UTAH		FORM 9
ı	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN	-	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-76560
SUNDR	RY NOTICES AND REPORTS (	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	oposals to drill new wells, significantly or reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Water Injection Well			8. WELL NAME and NUMBER: MONUMENT BUTTE FED 1-23-8-16
2. NAME OF OPERATOR: NEWFIELD PRODUCTION CO	OMPANY		9. API NUMBER: 43013320930000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT		PHONE NUMBER: Ext	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0660 FNL 0660 FEL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 23 Township: 08.0S Range: 16.0E Meridi	an: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOF	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
Approximate date work will start:	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
11/6/2012	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT Date of Spud:	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
DRILLING REPORT	L TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: 5 YR MIT
On 11/05/2012 contacted concer 11/06/2012 the cas 30 minutes with no test . The tubing p	COMPLETED OPERATIONS. Clearly show a Chris Jensen with the State of th	of Utah DOGM was above listed well. On 50 psig and charted for not injecting during the the test. There was a test - Chris Jensen.	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY November 08, 2012
NAME (PLEASE PRINT) Lucy Chavez-Naupoto	<b>PHONE NUMBE</b> 435 646-4874	ER TITLE Water Services Technician	
SIGNATURE N/A		<b>DATE</b> 11/7/2012	

Sundry Number: 31838 API Well Number: 43013320930000

# Mechanical Integrity Test Casing or Annulus Pressure Test

Newfield Production Company Rt. 3 Box 3630 Myton, UT 84052 435-646-3721

Witness: Mr. 5 Jensen  Test Conducted by: Cody 5. Vander  Others Present:	Date 1116112	Time <u>2:45</u>	am pm
Others Present.			
		•	
	Field:		
Well: Monument Buttle rederal	rieia:		
# 1-23-8-16	API No: 43~	213-32093	
Well: Monument Butte Federal  # 1-23-8-16 Well Location:	API No: 43°	J) -3 <b>4</b> 0 / 5	
NE/NE SEC. 23. T85. R/6E			

<u>Time</u>	<b>Casing Pressure</b>	
0 min	1250	psig
5	1250	psig
10	1250	psig
15	1250	psig
20	1250	psig
25	1250	psig
30 min	1250	psig
35		psig
40	•	psig
45		psig
50		psig
55		psig
60 min		_ psig

Result:

**Tubing pressure:** 

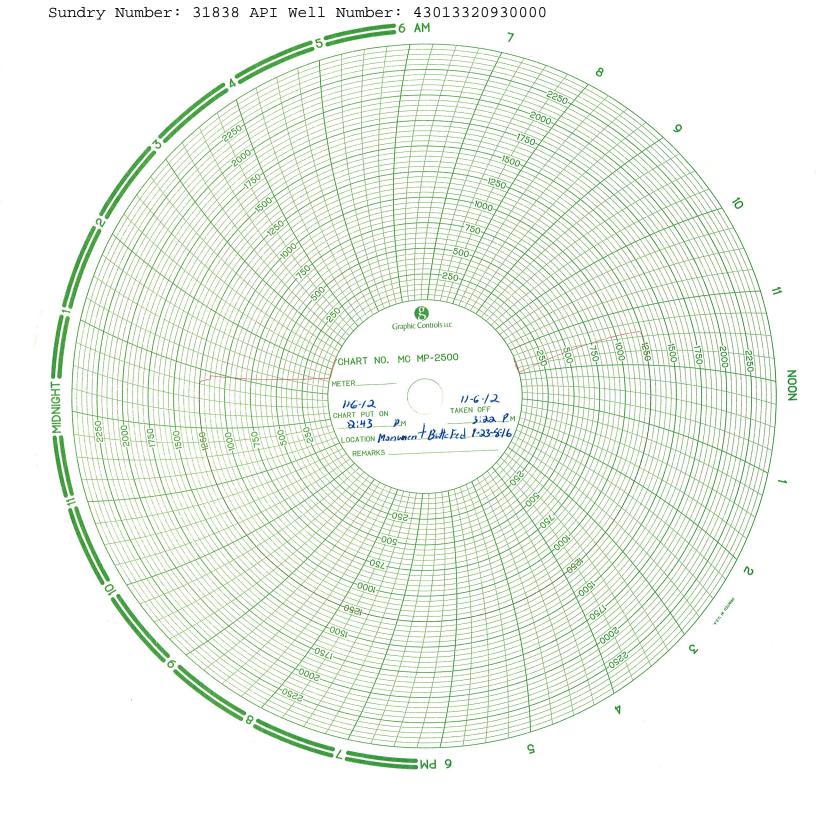
**Pass** 

Fail

psig

Signature of Witness:

Signature of Person Conducting Test:



Sundry Number: 52596 API Well Number: 43013320930000

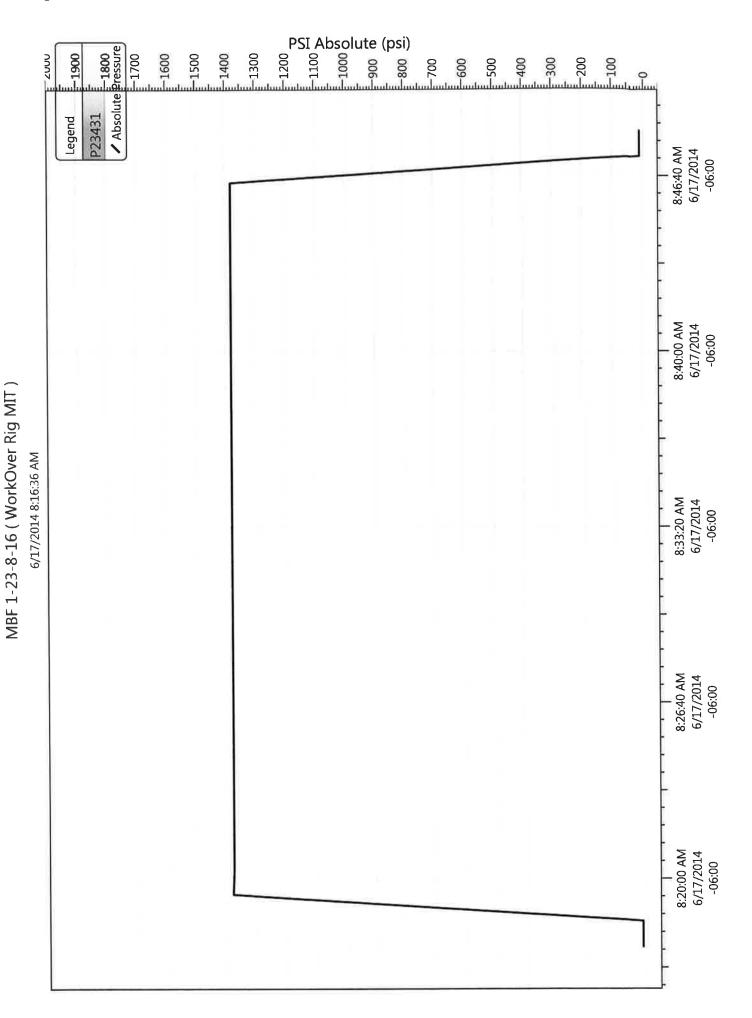
	07475 05 117411		FORM 9
	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCE	S	
	DIVISION OF OIL, GAS, AND MINI		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-76560
SUNDR	RY NOTICES AND REPORTS O	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	oposals to drill new wells, significantly de reenter plugged wells, or to drill horizont n for such proposals.		7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Water Injection Well			8. WELL NAME and NUMBER: MONUMENT BUTTE FED 1-23-8-16
2. NAME OF OPERATOR: NEWFIELD PRODUCTION CO	DMPANY		9. API NUMBER: 43013320930000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT			9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0660 FNL 0660 FEL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 23 Township: 08.0S Range: 16.0E Meridia	nn: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
Approximate date work will start:	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN [	iciantly deepen existing wells below it norizontal laterals. Use APPLICATION  7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)  8. WELL NAME and NUMBER: MONUMENT BUTTE FED 1-23-8-16  9. AR NUMBER: 43013320930000  9. FIELD and POOL or WILDCAT: MONUMENT BUTTE  COUNTY: DUCHESNE  STATE: UTAH  NDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  TYPE OF ACTION    ALTER CASING	
6/17/2014		¬	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  7. VINIT or CA AGREEMENT NAME: GMBU (GRRV)  8. WELL NAME and NUMBER: MONUMENT BUTTE FED 1-23-8-16  9. API NUMBER: 43013320930000  9. FIELD and POOL or WILDCAT: MONUMENT BUTTE  COUNTY: DUCHESNE  STATE: UTAH  OTICE, REPORT, OR OTHER DATA  FACTION    CASING REPAIR     CHANGE WELL NAME     CONVERT WELL TYPE     NEW CONSTRUCTION     PLUG BACK     RECOMPLETE DIFFERENT FORMATION     WATER DISPOSAL     APD EXTENSION     OTHER: MIT - Polymer Treatment     Including dates, depths, volumes, etc.     (polymer 14 Chris     MIT on the poto 1380     vell was not go the test.     County:   Duches     County:   Count
	│	SLEASE DESIGNATION AND SERIAL NUMBER: UTU-76560  GON WELLS  deepen existing wells below ontal laterals. Use APPLICATION  8. WELL NAME and NUMBER: MONUMENT BUTTE FED 1-23-8-16  9. APINUMBER: 43013320930000  PHONE NUMBER: 5. Ext  COUNTY: DUCHESNE  STATE: UTAH  TYPE OF ACTION  ALTER CASING CHANGE TUBBNG CHANGE TUBBNG CHANGE TUBBNG CHANGE TUBBNG RECLAMATION OF WELL SITE SIDETRACK TO REPAIR WELL VENT OR FLARE SI SITA STATUS EXTENSION  of OHER ON O6/13/2014 Chirs of Oping during the test. ble to witness the test.  BER  TITLE Water Services Technician DATE  Water Services Technician DATE  I LINIANA, ALLOTTEE OR TRIBE NAME: G. IF INDIAN, ALLOTTEE OR TRIBE NAME: G. AGREEMENT NAME: G. GABRE HAD POOL OR WILLDCAT: MONUMENT BUTTE FED 1-23-8-16  COUNTY: G. SWELL NAME: G. AGREEMENT NAME: G. MBU (GRRV)  COUNTY: DUCHESNE  STATE: UTAH  TYPE OF ACTION  COUNTY: DUCHESNE  STATE: UTAH  TYPE OF ACTION  COUNTY: COUNTY: DUCHESNE  STATE: UTAH  TYPE OF ACTION  COUNTY: COUNTY: DUCHESNE  STATE: UTAH  TYPE OF ACTION  COUNTY: COUNTY: DUCHESNE  SATE: UTAH  TYPE OF ACTION  COUNTY: COUNTY: COUNTY: DUCHESNE  SATE: UTAH  TYPE OF ACTION  COUNTY: COUNTY: COUNTY: DUCHESNE  SATE: UTAH  TYPE OF ACTION  COUNTY: COUNTY: COUNTY: DUCHESNE  STATE: UTAH  TYPE OF ACTION  COUNTY: COUNTY: DUCHESNE  STATE: UTAH  TYPE OF ACTION  COUNTY: COUNTY: COUNTY: COUNTY: DUCHESNE  STATE: UTAH  TYPE OF ACTION  COUNTY: COU	
SPUD REPORT Date of Spud:	PRODUCTION START OR RESUME	_	☐ RECOMPLETE DIFFERENT FORMATION
	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	L TEMPORARY ABANDON
DRILLING REPORT	TUBING REPAIR	IN WELLS  Sepen existing wells below al laterals. Use APPLICATION  Sepen existing wells below all laterals. Use Application of Oil, Gas and Mining June 26, 2014  Date:  By:  TITLE  Water Services Technician  DATE  Re TITLE  Water Services Technician  DATE	
Report Date:	WATER SHUTOFF	ALTER CASING  COMMINGLE PRODUCING FORMATIONS  ALTER CASING  COMMINGLE PRODUCING FORMATIONS  PLUG AND ABANDON  RECLAMATION OF WELL STE  SIDETRACK TO REPAIR WELL  VENT OR FLARE  SIT STATEL  SIDETRACK TO REPAIR WELL  VENT OR FLARE  SIT STATEL  SIDETRACK TO REPAIR WELL  VENT OR FLARE  SIT STATEL  SIDETRACK TO REPAIR WELL  VENT OR FLARE  SIT STATEL  SIDETRACK TO REPAIR WELL  VENT OR FLARE  SIT STATEL  SIDETRACK TO REPAIR WELL  VENT OR FLARE  SIT STATUS EXTENSION  VENT OR FLARE  STATE  CONVERT WELL TYPE  NEW CONSTRUCTION  PLUG BACK  RECOMPLETE DIFFERENT FORMATION  TEMPORARY ABANDON  OTHER:  MIT - POLYMOR Trealment  SIT STATUS EXTENSION  VENT OR FLARE  SIT STATUS  CONVERT WELL TYPE  NEW CONSTRUCTION  PLUG BACK  RECOMPLETE DIFFERENT FORMATION  TEMPORARY ABANDON  OTHER:  MIT - POLYMOR  SIT STATUS  SIT STATUS  SIT STATUS  SIT STATUS  SIT STATUS  SIT STATUS  CONVERT WELL TYPE  NEW CONSTRUCTION  PLUG BACK  RECOMPLETE DIFFERENT FORMATION  OTHER:  MIT - POLYMOR  SIT STATUS  SIT STATUS  SIT STATUS  SIT STATUS  COMPLETE DATA  SIT STATUS  COMPLETE DATA  SIT STATUS  COMPLETE DATA  SIT STATUS	
	WILDCAT WELL DETERMINATION	OTHER	OTHER: MIT - Polymer Treatment
12. DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show al	pertinent details including dates, o	
	well had workover procedure		Accepted by the
	hed is a daily status report. C		
	te of Utah was contacted cond		June 26, 2014
I .			Date:
1			VIVIVIVI F
			By:
There was not a	State representative available	e to withess the test.	
NAME (PLEASE PRINT)	PHONE NUMBE	R TITLE	
Lucy Chavez-Naupoto	435 646-4874		
SIGNATURE N/A			

Sundry Number: 52596 API Well Number: 43013320930000

# Mechanical Integrity Test Casing or Annulus Pressure Test

Newfield Production Company Rt. 3 Box 3630 Myton, UT 84052 435-646-3721

Witness: Test Conducted by	7:	Date 6/17/	1 <mark>4 Time <u>8:15</u></mark>	am pm
Others Present: _			- Wall (41)	
	Wo	RKOVER MIT		•
Well: MONUMENT BY	TE 1-23-8-1 3, T85, R16E		EATER MONUMENT BUTT	e
Wall Location:	3, 185 , RIGE	ADI No. 130	301332093	ı
Well Location.	ouchesne county	y, UTAH APINO. 9.	50 133 20 13	
	<u>Time</u>	Casing Pressure	•	
		10 11		
	0 min 5	1379.8	psig psig	
	10	1380-4	_ psig psig	
	15	1380-6	_ psig	
	20	13 80 . 4	_ psig _ psig	
	25	1380.4	_ psig	
	30 min	1380.0	psig	
	35	1380.0	psig	
	40		psig	
	45		_ psig	(2)
	50		psig	
	55		_ psig	
	60 min		_ psig	
2) 		^	==	
1	Tubing pressure:		_ <sup>psig</sup>	
	Result:	Pass	Fail	
			31	
Signature of Witn	ess:			
Signature	of Person Condu	esting Toet:	Fig. 1	



				Job Det	Detail Summary Report	
I Name:	Mon Bt 1-23-8-16	g				
Jobs					Lob Coard Data	
Primary Job Type Other					5/15/2014	6/17/2014
ions	Ιſ					
Report Start Date Report 5/15/2014 5/	Report End Date 24hr 5/15/2014 RO.	Activity Summ	RUSU ND WHI	24hr Activity Summary ROAD RIG MIRUSU ND WH NU BOP RU WORKFLOOR		
	06:30		End Time	19:00	Comment Moved From 8-6-9-18: MIRUSU, XO For 2 3/8" Tbg, OWU, No Pressure, ND WH, NU Weatherford BOP, RU Movefiloor, Released Arrow Set PKR, BMW H/O Flushed Tbg w/ 60BW w/ Biociede, Atemped to Drop Stnd Valv to PT Tbg, Inside of Tbg Wall Scaled, MU & RIH w/ Tbg Scrapper to 600', H/O Pmped 10BW Trying to Push d/Hole, LD Tbg Scrapper, Engineer & LOE Forman Decided to Switch Tbg String to 2 7/8" From 2 3/8", Waited on Empty Trailer for 2.5Hrs, LD 129- 2 3/8" on Trailer. SWIFN	ND WH, NU Weatherford BOP, RU I Blociede, Atemped to Drop Strid Valv H/O Pmped 10BW Trying to Push String to 2 7/8" From 2 3/8", Waited on
	19:00		End Time	19:30	Comment   CREW TRAVEL	
Report Start Date Report 5/16/2014 5/	Report End Date 24hr 5/16/2014 LD	Activity Summ TBG, LD P	24hr Activity Summany LD TBG, LD PKR, MU & RIH RBP & PKR	RBP & PKR		
	05:30		End Time	00:90	Comment CREW TRAVEL	
Start Time 00	00:00		End Time	18:30	Comment SICP Opsi SITP Opsi, OWU, LD Remaing 2 3/8" Tbg, LD Arrow Set PKR ( PKR was 4 1/2" NOT 5 1/2"), Waited SICP Opsi SITP Opsi, OWU, LD Remaing 2 3/8" Tbg, LD Arrow Set PKR ( PKR was 4 1/2" NOT 5 1/2"), Waited on NEW 2 3/8" Tbg String for 6hrs, Started PU @ 3:00PM, MU @ RIH w/ Weatherford RBP & PKR, PU 167- Jts (5392.70"), Set RBP @ 5409', LD 1- Jt Set PKR @ 5376', Flaming H/O Fill Tbg w/ 7BW, PT for 15Min @ 3000psi, GOOD TEST!, Released PKR, LD 2- Jts, Left PKR Hanging in PlaceSWIFWE	PKR was 4 1/2" NOT 5 1/2"), Waited Weatherford RBP & PKR, PU 167- Jts II Tbg w/ 7BW, PT for 15Min @ laceSWIFWE
Start Time	18:30		End Time	19:00	Comment CREW TRAVEL	
Report Start Date Report 5/19/2014 5/	Report End Date 24hr 5/19/2014 RD	WORKFLC	D BOP,	SET PKR, WAIT ON POLYMER		
Start Time 0.	05:30		End Time	00:00	Comment CREW TRAVEL	
			End Time	00:60	Comment SICP 50psi SITP 50psi, OWU, RD Workfloor, ND BOP, Set PKR CE @ 5310', ND Injection Tree, Flaming H/O Pmped 20BW d/ Annulus, Upper Perfs on Vacuum, SWI Waiting on Palomer Injection, RDMOSUFINAL RIG REPORT! (PKR CE @ 5310',- RBP Set @ 5409')	310', ND Injection Tree, Flaming H/O mer Injection, RDMOSUFINAL RIG
ar Date 2/2014	Report End Date 24hr 6/12/2014 MO	24hr Activity Summary MORUSU	nary			
	10:00		End Time	18:30	Comment Move From Ashley 11-2-9-15, MORUSU, Check Psi On Tbg Psi No Psi, Csg Psi No Psi, N/D Well Head, N/U Weatherford Bop, R/D Rig Fir, R/U Tbg Tongs, Release Pkr, P/U 3 Jts To Tag RBP, Fill Csg W/ 30 Bbls Wtr, Release RBP, Roll Hole W/ 60 Bbls Wtr W/ Scavenger, POOH Breaking & Doping, POOH W/ 118 Jts Tbg, SWIFN	Csg Psi No Psi, N/D Well Head, N/U Tag RBP, Fill Csg W/ 30 Bbls Wfr, & Doping , POOH W/ 118 Jts Tbg,
Slart Time	18:30		End Time	19:00	Comment CREW TRAVEL	
Report Start Date Report 6/13/2014 6/	late 014	EAK & DOF	24hr Activity Summary BREAK & DOPE TBG, LD PKR.	R. P/U NEW PKR ASSY		
	05:30		End Time	06:00	Comment CREW TRAVEL	
Start Time 00	06:00		Епд Ттв	17:00	Comment Check Psi On Tbg Psi Is , Check Psi On Csg Psi Is , Resume Breaking & Doping Tbg, Break & Doped 169 Jts, Check Psi On Tailer, L/D Weatherford Pkr, & RBP, P/U New Arrow Set Pkr & Assembly, RIH W/ 161 Jts, To Depth 5226. W/ Pkr & Assembly, R/U Preferred H/O Flush Tbg W/ 20 Bbls Wtr, Drop S/Valve, Pump S/Valve To SN W/ H/O, Took 15 Bbls, R/U To Start Psi Test Tbg, Good Test, R/U S/Line, P/U RIH To Fish S/Valve, POOH W/ S/Line, L/D S/Line, R/D Tong, R/D Flr, N/D Bop, N/U Well Head, R/U H/O TO Csg, To Pump 50 Bbls W/ Pkr Fuild, D/Csg, Set Arrow Set Pkr W/ 15000 Tension, CE PKR @5216, Psi Csg Up To 1400 Psi, Start Testing Csg Psi To 1400 Psi, Loss 30 Psi in Hr, Pump Back Up To 1400 Psi, SWIFN	& Doping Tbg, Break & Doped 169 Jts, kr & Assembly, RIH W/ 161 Jts, To Jts Wtr, Drop S/Valve, Pump S/Valve To Line, P/U RIH To Fish S/Valve, POOH 1/O TO Csg, To Pump 50 Bbls W/ Pkr i Csg Up To 1400 Psi, Start Testing IFN
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NEWFIELD  Well Name: Mon Bt 1-23-8-16		Job Det	Detail Summary Report	
				y Numb
Start Time 17:00	End Time	17:30	Comment CREW TRAVEL	
)ate 014	tivity Summary  K ANNULUS PRESSUF	24th Activity Summary CHECK ANNULUS PRESSURE, NO LOSS OVER WEEKEND - PERFORM MIT	D - PERFORM MIT	
05:30	End Time	06:00	Comment CREW TRAVEL	
Start Time 06:00	End Time	00:60	Comment Character NO LOSS Over Weekend, Newfield Witr Service Rep Preformed MIT, GOOD TESTRDMOSUFINAL RIG REPORT!!	
Report Start Date         Report End Date         24hr Acti           6/17/2014         6/17/2014         COND	24hr Activity Summary CONDUCT MIT			
08:15	End Time	08:45	Comment On 06/16/2014 Chris Jensen with the State of Utah was contacted concerning the MIT on the above listed well. On 06/17/2014 the csg was pressured up to 1380 psig and charled for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 0 psig during the test. There was not a State representative available to witness the test.	
				umber: 43013320930000
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Sundry Number: 52596 API Well Number: 43013320930000

# NEWFIELD

### **Schematic**

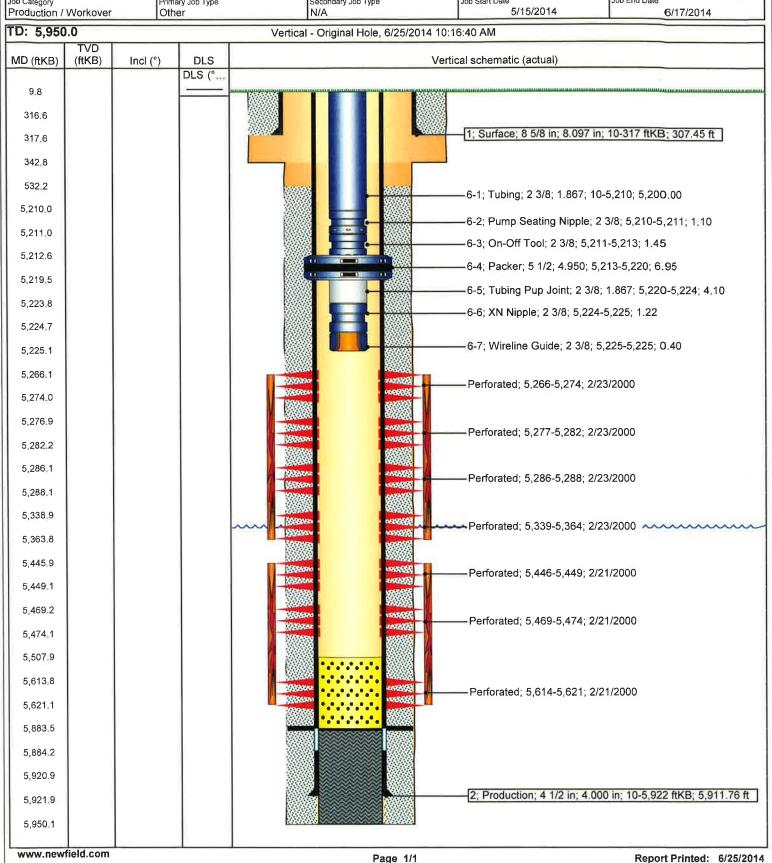
Well Name: Mon Bt 1-23-8-16

Surface Legal Location 23-8S-16E	on			API/UWI 43013320930	Well RC 000 500150941	Lease	State/Province Utah	Field Name GMBU CTB1	County DUCHESNE
Spud Date	Rig Release Date	On Production Date 2/25/2000	Original KB Elevation 5,352	(ft) Groun 5,34	nd Elevation (ft) 2	Total Depth All (T	VD) (ftKB)	PBTD (All) (ftKB) Original Hole -	5,883.4

 Most Recent Job

 Job Category
 Primary Job Type
 Secondary Job Type
 Job Start Date
 Job End Date

 Production / Workover
 Other
 N/A
 5/15/2014
 6/17/2014



Sundry Number: 52596 API Well Number: 43013320930000



# Newfield Wellbore Diagram Data Mon Bt 1-23-8-16

Surface Legal Localion 23-8S-16E					API/UWI 43013320930000		Lease	
County DUCHESNE		State/Province Utah			Basin		Field Name GMBU CTB1	
Well Start Date 2/3/2006	0	Spud Date			Final Rig Release Date		On Production Date 2/25	/2000
Original KB Elevation (ft) Grou	und Elevalion (ft)	Total Depth (ft	KB)		Total Depth All (TVD) (ftKB	)	PBTD (All) (flKB)	
5,352	5,342			5,950.0			Original Hole - 5,883	3.4
Casing Strings		Dun I	) T	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	Cat Doub (#ICD)
Csg Des Surface		Run [ 2/3/2010	Date	OD (in) 8 5/8	8.097	24.00		Set Depth (ftKB) 317
Production		2/10/2010		4 1/2	4.000	11.60	J-55	5,922
Cement								
String: Surface, 317fth	KB 2/3/2000						1000	
Cementing Company BJ Services Company					Top Depth (ftKB)	Bottom Depth (ftKB) 317.5	Full Return?	Vol Cement Ret (bbi)
Fluid Description					Fluid Type	Amount (sacks)	Class	Estimated Top (ftKB)
2% CaCl2+ 1/4#/sk Cel String: Production, 5,9		nn			Lead	141	G	10.0
Cementing Company	3221LIND 2/10/20	-			Top Depth (ftKB)	Bottom Depth (ffKB)	Full Return?	Voi Cement Ret (bbl)
BJ Services Company					532.0 Fluid Type	5,950.0	Class	Estimated Top (ftKB)
10% Gel+ 3% KCL					Lead	350	Premlite II	532.0
Fluid Description 2% Gel+ 3% KCL					Fluid Type Tail	Amount (sacks) 550	Class 50/50 POZ	Estimated Top (ftKB) 3,241.0
Tubing Strings								-,,-
Tubing Description Tubing				Run Date 6/13	/2014	Set Depth (ftKB)	5,225.2	
Item Des	Jts	OD (in)	ID (in)	VVt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing	161	2 3/8	1.867	5.95	L-80	5,200.00	10.0	5,210.0
Pump Seating Nipple On-Off Tool	1	2 3/8 2 3/8				1.10	5,210.0 5,211.1	5,211.1 5,212.6
Packer	:40	5 1/2	4.950			6.95		5,219.5
Tubing Pup Joint	1	2 3/8	1.867			4.10		5,223.6
XN Nipple	1	2 3/8				1.22	5,223.6	5,224.8
Wireline Guide	1	2 3/8				0.40	5,224.8	5,225.2
Rod Strings					Run Date		Set Depth (ftKB)	
Rod Description					Ruii Date		Set Deptil (IIKB)	
Item Des	Jts	OD	(in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (flKB)
				<u> </u>	L		L	
Other in Hole	Г	es			Top (ftKB)	Btm (ftKB)	Run Date	Pull Date
Fill		,03			5,508		6/10/2002	T dii Bato
Perforation Intervals		Top (ftKB) Blm (ftKB)				21		
Stage# 2 D SDS, Orig	Zone inal Hole	Top (ftKB) 5,266		Blm (ftKB) 5,274	Shot Dens (shots/ft)	Phasing (°)	Nom Hole Dia (in)	Date 2/23/2000
2 D SDS, Original Hole		5,277		5,282	2			2/23/2000
2 D SDS, Original Hole		5,286		5,288	I			2/23/2000
2 D SDS, Original Hole		5,339		5,364	2	180		2/23/2000
1 C/B SDS, Original Hole		5,446		5,449	4			2/21/2000
1 C/B SDS, Original Hole		5,469 5,614		5,474 5,621	4			2/21/2000
1 C/B SDS, Original Hole 5,614 Stimulations & Treatments					4	1		212 112000
Stage#	ISIP (psi)	Frac Grad	ient (psi/ft)	Max Rale (bbl/min)	Max PSI (psi)	Total Clean Vol (bbl)	Total Slurry Vol (bbl)	Vol Recov (bbl)
1				29.0				
2 Brownest	2,600			35.0	3,374	1		
Proppant To	otal Prop Vol Pumped	1						
Stage#	(lb)	Proposet	White Sar	nd 45516 lb	Total A	dd Amount		
2		The state of the s		nd 138783 lb				
<del></del>		sppant						

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